SUPREME COURT OF THE UNITED STATES

No. 6 Original

THE STATE OF NEW MEXICO COMPLAINANT

THE STATE OF COLORADO DEFENDANT

REPORT OF THE BOUNDARY COMMISSIONER

PART THREE OF THREE

FROM CONTINENTAL DIVIDE

TO FOUR CORNERS

SUPREME COURT OF THE UNITED STATES

OCTOBER TERM, 1959

No. 1, Original

THE STATE OF NEW MEXICO, COMPLAINANT

vs.

THE STATE OF COLORADO, DEFENDANT

REPORT OF THE BOUNDARY COMMISSIONER

PART THREE OF THREE

FROM CONTINENTAL DIVIDE TO FOUR CORNERS

JOSEPH C. THOMA,
Boundary Commissioner.

WASHINGTON, D. C., June 1, 1960.

THE COURIER PRINTING CO., LITTLETON, N. H.

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SUPREME COURT OF THE UNITED STATES

October Term, 1959

No. 1, Original

THE STATE OF NEW MEXICO, Complainant,

vs.

THE STATE OF COLORADO, Defendant

THIRD REPORT OF THE BOUNDARY COMMISSIONER

To the Chief Justice and the Associated Justices of the Supreme Court of the United States:

In further continuation of our work as commissioners designated in the Decree of April 13, 1925 (268 U. S., 108) in the above entitled case, the late Arthur D. Kidder and I have run, located, and marked upon the ground the boundary line between the States of Colorado and New Mexico in accordance with Section Two of the Decree and the principles announced in the Opinion delivered January 26, 1925 (267 U. S. 30).

All field work was done under the supervision of Arthur D. Kidder, Boundary Commissioner. (Mr. Kidder died suddenly at his home in Terre Haute, Indiana, in June, 1958.)

On July 2, 1958, The Supreme Court of the United States appointed Joseph C. Thoma, of Washington, D. C., Boundary Commissioner, to complete the report and field notes of the boundary survey. Mr. Thoma was assisted in his duties by Gordon E. Ainsworth and Associates of South Deerfield, Massachusetts, and Phoenix, Arizona.

The report of the survey will be given in three parts, viz:

PART ONE:

From the Northeastern corner of New Mexico westward to the Crest of the Sangre de Cristo Range

PART TWO:

From the Crest of the Sangre de Cristo Range westward to the Continental Divide

PART THREE:

From the Continental Divide westward to the corners of the four States: Arizona, Colorado, New Mexico and Utah.

SPECIFIC REPORT OF THE BOUNDARY COMMISSIONER

PART THREE

From the Continental Divide Westward to the corners of the four States: Arizona, Colorado, New Mexico and Utah.

This report concludes the field note record and mapping of the boundary survey between the States of Colorado and New Mexico from the Continental Divide, terminal point for Part Two, westward to Four Corners.

This 128 miles of boundary, commencing at the Continental Divide was surveyed in 1932, with Hugh B. Crawford, as chief of party. Due to lack of funds, the field work was suspended, being resumed in August, 1947, with Mr. Joseph C. Thoma as chief of party; all field work being done under the direct supervision of Arthur D. Kidder, Boundary Commissioner.

The field work consisted of retracing and reestablishing the boundary between the States of Colorado and New Mexico in accordance with the United States Supreme Court Decree, 268 U. S. 108, April 13, 1925.

In full compliance with the above Decree, the surveying of the boundary took place, and the boundary was marked upon the ground with the establishment of monuments of the following descriptions; the monument for any specific point being described in detail in the field note records:

Monuments of concrete were molded in mass at the station, in galvanized metal forms, in the shape of truncated cones of the following sizes:

8" upper diam., 14" lower diam., 36" high
16" upper diam., 24" lower diam., 36" high
8" upper diam., 11" lower diam., 18" high

Heavy bronze tablets were set in the top of these concrete monuments. An illustration of the heavy bronze tablet used is shown on the opposite page; the tablet being marked with identifying Mile Corner or portion thereof, in the field, and properly oriented on the monument top.

The bronze tablet, had interchangeable stems, designed so that stem type could be readily changed, but once set, impossible to detach. Inserting the proper stem, the illustrated tablet was set in solid rock ledges and outcrops where other types of monuments could not be constructed.

In addition to the above monuments, a red brass tubing monument was used; the tubing being 3.5 ins. diam., 36 ins. long, with a 6 inch square red brass plate brazed to the bottom, and either a brass tablet or cap, brazed to the top. The cap carried the same inscriptions as the tablet and was marked in the field in a similar manner.

THE SUPREME COURT OF
COLORADO
MILE CORNER
No.
1868
1925
PENALTY FOR DISTURBING
CHS
THE NEW MEXICO
THE UNITED STATES

Below, to show the degree of control for the reestablishment of the Darling boundary, the 128 miles of boundary have been divided into four distinct groups of miles, and statements covering the degree of control for the survey are made for each group, as follows:

FROM THE CONTINENTAL DIVIDE, DARLING'S MILE NO. 202 + 5.19 CHS., TO DARLING'S ASTRONOMICAL MONUMENT NO. 8, MILE NO. 241 + 21.56 CHS.:

This section of the Darling boundary was retraced and restored by Wm. C. Perkins, U. S. Surveyor, under directions of the Commissioner of the U. S. General Land Office, in 1917, and decreed by the Supreme Court to be the boundary between New Mexico and Colorado.

The field note records of Arthur D. Kidder's retracement and reestablishment of the Perkins' Line, shows that all of the Perkins' monuments established were in existence and clearly marked at the time of his retracement. Mr. Kidder remonumented each of the Perkins' iron posts, enclosing them within a concrete monument from Perkins' 203rd to 236th Mile Corner inclusive; from this point to Darling's Astronomical No. 8, the Perkins' iron posts remain as the monuments of the boundary. In this entire interval three mile posts not established by either Perkins or Darling, were established by Kidder, at proper proportionate distance, using control points established by Perkins for alignment. In addition, 11 other concrete monuments were constructed on the boundary where they would be conspicuous for the aid of those who may have need for locating the line.

FROM DARLING'S ASTRONOMICAL NO. 8, MILE NO. 241 + 21.56 CHS., TO DARLING'S TERMINAL POINT, MILE NO. 289 + 35 CHS.:

This portion of the boundary was decreed by the Supreme Court to be as surveyed by Ehud N. Darling in 1868. The field note records for this 48 miles of boundary show that only 14 control points existed at the time the boundary was retraced by Kidder. Subdividing these 48 miles of boundary into those miles between Darling's Astronomical Monument No. 8, restored by Perkins in 1917, and his Astronomical Monument No. 9, 23 miles west of No. 8, only four Darling monuments remained:

No. 247: Restored in 1934, by Everett Kimmel, U. S. Surveyor on detail with the U. S. Coast and Geodetic Survey.

No. 261: Restored in 1925, by Albert Rich, U. S. Cadastral Engineer, under directions of the Commissioner of the U. S. General Land Office, in the course of his surveying of portions of T. 32 N., R. 9 W., New Mexico Principal Meridian, Colorado.

Nos. 252, 253: Both original Darling monuments identified in the course of this work.

The official records of the restoration of No. 247 and No. 261 were accepted and used by Arthur D. Kidder as being the best available evidence for the position of Darling's original points.

West, from Astronomical Monument No. 9, Mile No. 265 + 68.27 Chs. to Darling's Terminal Point, Mile No. 289 + 35 Chs., Kidder found seven of Darling's original monuments, located over the 24 mile distance, so that the average retracement length was two miles.

From Darling's 280th mile to his Terminal Point, the alignment in latitude was determined from the official records, using a closing corner established 1.50 chains East of the original Darling 280th Mile Corner; the line being projected due West to the Darling Terminal Point. Careful search at the time of the retracement revealed that no better control for latitude existed. The field note calls of the Darling survey were used to determine proportionate distances from 280 to 286, and regular 80.00 chains miles were established West of the reestablished 286. In this small portion, the field note calls of Darling's could be checked, but they were not in close enough agreement with the retracement calls to justify varying the length of the mile by proportionate distances.

FROM DARLING'S TERMINAL POINT, MILE NO. 289 + 35 CHS., TO DARLING'S ASTRONOMICAL NO. 10, MILE NO. 313 + 17.08 CHS.:

This 24 miles of the boundary was regarded by Darling in 1868, as "impossible to survey" because of the numerous high cliffs and deep rugged gorges. Darling did compute a line and distance connecting these two points, but until the time of this boundary survey, the boundary had never been marked upon the ground. Under the supervision of Mr. Kidder, a random line was run between Darling's Terminal Point and Astronomical Monument No. 10, to determine the true line bearing between these two points. With the true line bearing determined, this 24 miles of boundary was monumented with 40 monuments consisting mostly of brass tubing monuments with brass caps, and brass tablets set in solid rock.

FROM DARLING'S ASTRONOMICAL MONUMENT NO. 10, MILE NO. 313 + 17.08 CHS., TO THE CORNER OF THE FOUR STATES: ARIZONA, COLORADO, NEW MEXICO AND UTAH, HEREIN KNOWN AS THE "FOUR CORNERS" MONUMENT:

Darling did survey and monument this portion of the boundary, 17 miles in length. The following quote from the official records of a survey, by Howard B. Carpenter, U. S. Surveyor, in 1903, leaves little doubt as to the condition of these monuments at that time. "I searched the country thoroughly on both sides of my line from the four corners back to Mr. Darling's Astronomical Monument No. 10 near his 313th Mile Cor., and this is the only

object I succeeded in finding bearing any of the Darling marks." The object found was Darling's 325th Mile Corner, which Carpenter found lying on the ground and he believed, not at its original position. The retracement of this portion of the boundary, under Mr. Kidder, met with no better success in finding any of Darling's original monuments.

The country in this area is open; both men unhampered by timber and undergrowth did, with comparative ease, make careful search, not only the recorded position of these monuments, but also the surrounding areas.

As decreed by the United States Supreme Court, the recorded position for each of the Carpenter monuments was searched, and all evidence of a Carpenter monument, after being tied into the reestablished boundary, was obliterated. Only a few of the actual posts could not be found after careful search, and these few were located at points such that the elements probably had destroyed the monuments. In addition to the few iron posts not found, some posts were left in position to serve functions other than of marking the Carpenter boundary. All evidence on any of these posts as being a Carpenter boundary monument was carefully obliterated.

Before leaving the subject of control for the reestablishment of the decreed boundary, except for the section restored by Perkins and the portion where Darling's original monuments averaged two miles apart, little if any, of Darling's original points remained. The reestablished line for other parts was to some degree, based upon the official records of other official surveyors, who for other reasons than restoring the boundary, had to locate Darling's original points. Only after careful and weighted evaluation of the records of what these surveyors found as evidence of Darling's original monuments, in addition to what Mr. Kidder found at the same points, did Mr. Kidder conclude that these restored points were the best available evidence of the Darling original points.

This entire portion of the boundary is rough, mountainous land, covered with cedar and pinon timber, with some yellow pine in the higher altitudes; varying from scattering to dense stands, with the exceptions of the cultivated valley lands and the extreme western portion, which is gently rolling land almost void of any vegetation. The undergrowth consists mostly of scrub oak and sage brush, except in the cultivated valley lands, varying from scattering to dense growth. Notably in the eastern part of this portion of the boundary, the scrub oak grows densely, mile after mile, and is believed by many to be the cause for the discrepancies in alignment of Darling's survey.

Active gas and oil wells have been developed on both sides of the boundary in the Barker Canon area, and considerable prospecting for gas and oil is taking place in New Mexico east of the La Plata River.

The field work was completed on September 11, 1950; the delay in the preparation of the field notes and final report was due to lack of funds.

The foregoing and the following portions of this report are respectfully submitted to the Chief Justice and the Associate Justices of the Supreme Court of the United States for their approval.

Your humble and obedient servant.

JOSEPH C. THOMA
Boundary Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 202

to

MILE CORNER No. 211

COLORADO AND NEW MEXICO BOUNDARY

This portion of the boundary survey was executed with a Buff and Buff engineer's transit equipped with an improved Smith Solar attachment, the horizontal circle has two double opposite verniers reading to single minutes, the vertical circle has one double vernier reading to single minutes. The instrument was in good condition and was placed in satisfactory adjustment prior to the beginning of the survey, and was tested and found free from appreciable error. Frequent tests were made throughout the survey.

The tangent method of surveying a parallel of latitude was selected; the controlling meridian was established by observations on Polaris; the bearing of the tangent was deflected from the meridian by repetition of angles and carried forward by transit line, taking the mean of direct and reversed sights at each instrument station. Frequent observations on Polaris, and direct observations on the sun for azimuth were made throughout the survey to test the azimuth of the tangent.

Measurements were made with a narrow steel tape, 5 chains in length, graduated every link for the first 100 links, and thereafter at intervals of ten links. The tape was tested by comparison with a 1 chain standard steel tape and found correct. Measurements were made on the slope and the vertical angles determined by a clinometer in good adjustment; the field notes show the horizontal equivalents.

COLORADO AND NEW MEXICO BOUNDARY

The Darling Line 203rd Mile

Continuing in Volume Three the survey records of the Colorado and New Mexico Boundary, the pertinent information of the retracement and re-establishment of the Darling 203rd Mile, ending the Field Notes and Maps of the Volume Two Report is herewith repeated.

Chains *RETRACEMENT*

[redacted]t, on a retracement of the Darling boundary, on a transit line describing a tangent.

68.67 Altitude observation on the sun for azimuth, September 16, 1931.

80.18 N. 0.8 lks. to the parallel; thence the 203rd Mi. Cor. bears S. 50.9 lks. dist.; on this determination the true line bears S. 89° 38' W.

THE DARLING LINE, 203RD MILE

Chains *REESTABLISHMENT*

Thence from the 202nd Mi. Cor. S. 89° 38' W., on a reestablishment of the 203rd mile.

Ascend 33 ft. over E. slope, through timber and undergrowth.

5.10 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 202 + 5.10 chs., 1868-1925, and build a mound of stone around the monument;

from which

A balsam, 8 ins. diam., bears N. 16° E., 12½ lks. dist., mkd. WP COLO BT.

A spruce, 24 ins. diam., bears S. 5¾° W., 93 lks. dist., mkd. WP NM BT.

Monument stands on the crest of the Continental Divide, bearing N. 12¼° W. and S. 11½° W.

8.80 Draw, course N.; ascend 50 ft. over NE. slope.

14.00 Crest of spur, slopes N. 5° E.; thence descend and ascend along broken NW. and N. slopes; ascending 31 ft. to the cor.; this spur was mistaken for the Continental Divide by Darling.

24.00 Slope changes to N.

54.77 The Carpenter 129th Mi. Cor. bears North, 54.64 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the four bearing trees; this corner is a line corner on the S. bldg. of the Crawley Ranch; I set the housing of the rear axle of a Model T Ford car, 30 ins. in the ground, to preserve the point.

55.35 E. end of sink hole, bears S., 85 lks. dist.; 150 lks. long E. and W. x 30 lks. wide N. and S.

61.35 Leave timber, bears N. and S.; enter open park approximately 10 chs. N. and S.

65.70 Enter timber, bears N. and S.

67.85 Stream bed, course N. 35° W.

70.00 N. end of open park, bears S., approximately 15 chs., and averages about 5 chs. wide.

Chains THE DARLING LINE, 203RD MILE

71.00 Leave N. end of open park.

80.18 Darling's 203rd Mi. Cor. as reestablished by Perkins in 1917, an iron post, 3 ins. diam., 12 ins. above ground, firmly set in ground, in a stump hole, with brass cap, marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner No. 203, 1868-1925, and build a mound of stone around the monument;

from which

A spruce, 16 ins. diam., bears S. 37½ W., 80 lks. dist., mkd. NM 203 M BT.

A spruce, 12 ins. diam., bears N. 45½ W., 95 lks. dist., mkd. COLO 203 M BT.

Land, rolling mountainous.

Soil, sandy and stony loam; 2nd rate.

Timber, spruce and aspen; undergrowth, young timber.

THE PERKINS LINE, 204TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line, describing a tangent.

38.55 Altitude observation on the sun for azimuth, July 26, 1932.

80.74 N. 0.8 lks. to the parallel; thence the 204th Mi. Cor. bears N. 10.8 lks. dist.; on this determination the true line bears N. 89° 55' W.

REESTABLISHMENT

Thence from the 203rd Mi. Cor. N. 89° 55' W., on a reestablishment of the 204th mile.

Ascend 23 ft. along broken N. slope, through timber and undergrowth.

1.05 East edge of sink hole.

1.30 Water in sink hole, 3 ft. deep.

2.15 Leave water.

Chains THE PERKINS LINE; 204TH MILE

2.40 Leave sink hole.

6.20 Top of ascent; descend 58 ft. along N. slope.

11.40 Thence along the S. side of an open park; extends N., approximately 14 chs. dist.

17.72 Corral fence, approximately 80 lks. square.

18.52 West edge of corral; leave open park; enter timber, bears N. 30° W. and S. 30° E.

22.75 The Carpenter 128.4 Mi. Cor. bears North, 55.08 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove the brass cap from the post and obliterate the marks on the three bearing trees; the post was left to preserve the point as a line corner on the S. boundary of the Crawley Ranch.

Thence ascend 165 ft. along broken NE. slope.

50.60 Leave timber, bears NE. and SW.; enter oak brush.

61.60 Saddle, between NE. and SW. slopes, bears NW. and SE.

64.75 Crest of spur ridge, bears N. 65° W. and S. 65° E.; descend 67 ft. over SW. slope.

70.00 Foot of descent near head of draw; ascend 57 ft. over SE. slope.

80.35 Crest of ridge, bears N. and S.; descend 4 ft. over steep SW. slope.

80.74 Perkins' 204th Mi. Cor.: an iron post, 3 ins. diam., 18 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 204, 1868-1925, and build a mound of stone around the monument;

from which

A pine, 15 ins. diam., bears S. 34½° E., 98 lks. dist., mkd. NM 204 M BT.

A balsam, 14 ins. diam., bears N. 65½° W., 134 lks. dist., mkd. COLO 204 M BT.

These trees are the Perkins trees marked additional to the first marks.

Land, rolling mountainous.

Chains

THE PERKINS LINE, 204TH MILE

Soil, gravelly and stony loam and clay; 3rd rate.
Timber, spruce, aspen, and pine; undergrowth, young timber and oak brush.

THE PERKINS LINE, 205TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

79.97 N. 0.8 lks. to the parallel; thence the 205th Mi. Cor. bears N. 7.1 lks. dist.; altitude observation on the sun for azimuth, July 29, 1932; on this determination the true line bears N. 89° 57' W.

REESTABLISHMENT

Thence from the 204th Mi. Cor. N. 89° 57' W., on a reestablishment of the 205th mile.

Descend 957 ft. over broken W. slope, through undergrowth.

16.80 Dry drain, course N. 80° W.; enter scattering timber.

20.90 Beginning of dense timber.

27.75 Dry drain, course S. 65° W.

34.95 Same drain, course N. 35° W.

38.40 Leave timber, bears NW. and SE.; continue in undergrowth.

53.81 The Carpenter 127th Mi. Cor. bears North, 55.39 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove the brass cap from the post and obliterate the marks on the bearing tree; the post was left to preserve the point as a line corner on the S. boundary of the Crawley Ranch.

58.90 Leave oak brush; enter small grove of aspen, bears N. and S.; enter valley in large flat draw, course NW.

62.40 Leave aspen grove; enter meadow, bears N. and S.

72.25 Enter strip of willow brush, bears N. 65° E. and S. 65° W.

76.20 Spring branch, bed 6 lks. wide, with small flow of water, 3 ins. deep, course S. 65° W.

hains

THE PERKINS LINE, 205TH MILE

77.00 Leave strip of willow brush, bears N. 65 E. and S. 65 W.; enter meadow.

79.97 Perkins' 205th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 205, 1868-1925, and build a mound of stone around the monument;

from which

A red sandstone boulder, 6x10x3 ft. above ground, bears N. 66 11' E., 10.865 chs. dist., mkd. BO 205 M.

An oak, 8 ins. diam., bears N. 10 20' E., 258 lks. dist., mkd. as described in the official record; add COLO 205 M BT.

A leaning willow, 8 ins. diam., bears S. 49 E., 133 lks. dist., mkd. as described in the official record.

A dead willow, 6 ins. diam., bears S. 58½ W., 212 lks. dist., mkd. as described in the official record.

An oak, 6 ins. diam., bears N. 60 37' W., 439 lks. dist., mkd. as described in the official record.

Land, broken mountainous.

Soil, stony clay and gumbo; 3rd rate.

Timber, spruce, pine, and aspen; undergrowth, young timber, willows, and oak brush.

THE PERKINS LINE, 206TH MILE

RETRACEMENT

Altitude observation on the sun for azimuth, July 29, 1932.

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

79.68 N. 0.8 lks. to the parallel; thence the 206th Mi. Cor. bears S. 2.1 lks. dist.; on this determination the true line bears S. 89 59' W.

REESTABLISHMENT

Thence from the 205th Mi. Cor. S. 89 59' W., on a reestablishment of the 206th mile.

Chains THE PERKINS LINE, 206TH MILE

Descend 87 ft. over gently rolling S. slope, through meadow.

7.30 Leave meadow; enter oak brush, bears N. and S.

15.70 Bottom of small open draw, course S.

21.60 Crest of small spur, slopes S.

30.90 Crest of small spur, slopes S. 20° W.

33.57 Wire fence, bears N. and S.

35.90 Foot of descent; ascend 44 ft. along S. slope.

47.00 Top of ascent; descend 258 ft. over SW. slope.

51.56 The Carpenter 126.037 Mi. Cor. bears North, 56.45 chs. dist.; an iron post, firmly set in ground and mound of earth; I remove the brass cap from the post and obliterate the marks on the four bearing trees; the post was left to preserve the point as a line corner on the S. boundary of the Crawley Ranch.

68.35 Small spur, slopes N.

70.20 Leave oak brush, bears NE. and SW.; enter nearly open meadow.

79.68 Darling's 206th Mi. Cor. as reestablished by Perkins in 1917; an iron post, 3 ins. diam., 12 ins. above ground, firmly set in ground, in a large pine stump hole, with brass cap marked as described in the official record.

Around the post

Construct a concrete monument, in a form 8x24x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 206, 1868-1925, and build a mound of stone around the monument;

from which

A pine, 18 ins. diam., bears N. 34° 05' E., 583 lks. dist., mkd. as described in the official record.

A pine, 24 ins. diam., bears S. 36° 40' E., 281 lks. dist., mkd. as described in the official record; add NM 206 M BT.

A pine, 24 ins. diam., bears S. 59° 20' W., 261 lks. dist., mkd. as described in the official record.

A pine, 22 ins. diam., bears N. 22° 05' W., 214 lks. dist., mkd. as described in the official record; add COLO 206 M BT.

A pine stump, 28 ins. diam., bears N. 14° 37' E., 250 lks. dist.

Land, rolling mountainous.

COLORADO AND NEW MEXICO BOUNDARY

Chains

The Perkins Line, 206th Mile

Soil, stony black gumbo. 2nd rate.
Timber, scattering pine; undergrowth, oak brush.

COLORADO AND NEW MEXICO BOUNDARY

The Perkins Line, 207th Mile

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

79.36 N. 0.8 lks. to the parallel; thence the 207th Mi. Cor. bears N. 8.2 lks. dist.; on this determination the true line bears N. 89° 56' W.

REESTABLISHMENT

Thence from the 206th Mi. Cor. N. 89° 56' W., on a reestablishment of the 207th mile.

Ascend 55 ft. over SE. and N. slopes, through open meadow.

1.30 Leave meadow; enter scattering timber and undergrowth, bears E. and S.

4.00 Slope changes to N.

4.50 Crest of spur ridge, bears NE. and SW.; descend 118 ft. over NW. slope.

5.45 Pine, 20 ins. diam., bears N., 5½ lks. dist., Darling's blazes chopped out.

10.70 Enter open meadow, bears N. 10° E. and S. 10° W.

12.50 Draw, drains S. turning SW.; ascend 27 ft. over SE. slope.

14.00 Enter oak brush, bears N. 20° E. and S. 20° W.

15.20 Top of ascent; descend 68 ft. over S. slope.

20.30 Leave oak brush; enter open meadow, bears N. 20° E. and S. 20° W.

22.50 Enter valley, bears N. 20° E. and S. 20° W.

28.25 Creek, 3 lks. wide, banks 2 ft. high, stream 3 ins. deep, course N. 80° W. from S. 65° E.

30.25 Enter oak brush, bears S. and NW.; foot of descent; ascend 102 ft. over broken N. slope.

Chains

THE PERKINS LINE, 207TH MILE

50.25 Crest of low ridge, bears N. 60° W. and S. 60° E.; descend 127 ft. over SW. slope.

54.36 The Carpenter 125th Mi. Cor. bears North, 56.40 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove the brass cap from the post and obliterate the marks on the bearing tree; the post was left to preserve the point as a line corner on the S. boundary of the Crawley Ranch.

54.90 Wagon road, bears N. 50° W. and S. 50° E.

56.47 Wire fence, bears N. 53° W. and S. 53° E.; enter open meadow.

78.75 Creek, 5 lks. wide, banks 3 ft. high, stream 6 ins. deep, course NW.

79.07 Same creek, course S. 20° E.

79.36 Perkins' 207th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record, excepting the distance to the dead pine tree, which is N. 66° 19' E., 9.66 chs. dist.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 207, 1868-1925, and build a mound of stone around the monument;

from which

Darling's 207th Mi. Cor., bears N. 12° 30' E., 1.28 chs. dist.; a well sodded mound of earth between well sodded pits E. and W. of mound 10 lks. dist.;

from which

The east end of a timbered hill, bears S. 55° W.

The east end of an upper sandstone ledge, bears S. 25½° W.; a lower sandstone ledge, bears S. 25° W.

Land, rolling mountainous.

Soil, slightly stony black gumbo; 2nd rate.

Timber, scattering pine; undergrowth, oak brush.

THE PERKINS LINE, 208TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line, describing a tangent.

Chains

THE PERKINS LINE, 208TH MILE

79.26 N. 0.8 lks. to the parallel; thence the 208th Mi. Cor. bears N. 18.0 lks. dist.; on this determination the true line bears N. 89° 52' W.

REESTABLISHMENT

Thence from the 207th Mi. Cor. N. 89° 52' W. on a reestablishment of the 208th mile.

Descend 10 ft. over gentle W. slope, in open meadow.

0.25 Creek, 5 lks. wide, banks 3 ft. high, stream 6 ins. deep, course N. 60° W. turning to NW.

5.40 Small ditch, 5 lks. wide, course N.; ascend 157 ft. over NE. and N. slopes.

8.20 Construct a concrete monument, in a form 16x24x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 207 + 8.20 Chs., 1868-1925, and build a mound of stone around the monument.

Monument stands at W. edge of meadow, bearing NW. and SE.

8.90 Enter timber and undergrowth, bears NW. and SE.

10.00 Slope changes to N.

14.70 Crest of small ridge, bears N. 30° W. and SE.; leave timber.

16.80 Small open draw, course N. 20° W.

19.50 Spur, slopes N.; descend 23 ft. over NW. slope.

21.50 Draw, drains N. 40° E., ascend 48 ft. over NE. slope.

27.60 Crest of spur, slopes N. 25° W.; descend 152 ft. over W. slope.

33.40 Leave oak brush, bears N. 20° E. and S. 20° W.

36.15 Draw, banks 5 lks. wide, 1 ft. high, course N. 20° E.; enter meadow at foot of descent, bears N. 20° E. and S. 20° W.; thence over gentle N. slope.

43.45 Drain, on W. side of meadow, course NE.; ascend 186 ft. over slightly broken gentle NE. slope.

46.00 Enter oak brush, bears NE. and SW.

54.69 The Carpenter 124th Mi. Cor. bears North, 56.11 chs. dist.; an iron post, firmly set in ground and mound of earth; I remove the brass cap from the post and obliterate the marks on the three bearing

Chains

THE PERKINS LINE, 208TH MILE

trees: the post was left to preserve the point as a line corner on the S. boundary of the Crawley Ranch.

61.70 Leave oak brush; enter open park, bears N., approximately 8 chs. dist. and S., approximately 3 chs. dist.

66.50 Thence along S. side of park, entering and leaving oak brush.

72.20 Leave park; enter oak brush, bears NE. and SW. turning to E.

74.50 Crest of spur, slopes NE.; descend 15 ft. over NW. slope.

76.00 Head of draw, drains NE.; ascend 58 ft. over NE. slope.

79.26 Perkins' 208th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set with brass cap marked as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 208, 1868-1925, and build a mound of stone around the monument,

from which

A pine, 35 ins. diam., bears N. 60° 19′ E., 5.55 chs. dist., no marks.

Cross on sandstone boulder, bears S. 63° 36′ W., 184 lks. dist., mkd. as recorded

Cross on sandstone boulder, bears N. 44° 30′ W., 106 lks. dist., mkd. as recorded

Land, rolling mountainous.

Soil, slightly stony clay and gumbo; 2nd and 3rd rate.

Timber, spruce, pine, and aspen; undergrowth, young timber and oak brush.

THE PERKINS LINE, 209TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

79.29 N. 0.8 lks. to the parallel; thence the 209th Mi. Cor. bears N. 4.9 lks. dist.; on this determination the true line bears N. 89° 58′ W.

THE PERKINS LINE, 209TH MILE

Chains

REESTABLISHMENT

Thence from the 208th Mi. Cor. N. 89° 58' W., on a reestablishment of the 209th mile.

Ascend 166 ft. over NE. and N. slopes, through oak brush.

2.50 Enter dense aspen, bears N. and S.; leave oak brush.

5.60 Slope changes to N.

12.00 Enter oak brush in aspen.

15.60 Crest of spur, slopes N.; descend 166 ft. over NW. slope, crossing head of a draw.

32.76 The closing cor. of the West boundary of the Tierra Amarilla Grant, as closed from the reestablished 4th Mi. Cor. in New Mexico by Guy P. Harrington, U. S. Cadastral Engineer, in 1919, bears South, 19½ lks. dist.; an iron post, 3 ins. diam., 8 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record, except the mark COLO does not appear on the post, and T. 32 N. R. 1 E. S 23 is marked on the N. instead, and the date marked is 1918.

33.495 The closing cor. of the West boundary of the Tierra Amarilla Grant, as closed from the reestablished 3rd Mi. Cor. in Colorado, by Charles W. Devendorf, U. S. Cadastral Engineer, in 1924, bears South, 15.5 lks. dist.; an iron post, 3 ins. diam., 6 ins. above ground, firmly set, with brass cap marked COLO on N., NM on E., TAG in NE., TAG in SE., T 32 N, R 1 E, S 23 in NW., S 15, R 1 E, T 32 N in SW. quarter, CC in center.

33.63 Intersect the line between the reestablished 3rd Mi. Cor. on the West boundary of the Tierra Amarilla Grant in Colorado and the reestablished 4th Mi. Cor. on the West boundary of the Tierra Amarilla Grant in New Mexico.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 208 + 33.63 Chs., 1868-1925, and build a mound of stone around the monument;

from which

The reestablished 3rd Mi. Cor. on the West boundary of the Tierra Amarilla Grant, bears N. 1° 14' E., 7.03 chs. dist.; an iron post,

Chains THE PERKINS LINE, 209TH MILE

3 ins. diam., 8 ins. above ground, with brass cap marked and witnessed as described in the official record.

The reestablished 4th Mi. Cor. on the West boundary of the Tierra Amarilla Grant, bears S. 1° 14′ W., 72.97 chs. dist.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

A sandstone, 10x10x5 ins. above ground, firmly set in mound of stone, bears S. 1° 01′ W., 17.58 chs. dist., marked TA on E. face with a cross (+) under the TA; stands on crest of a high spur of lone mountain, bearing N. 57° E. and S. 57° W.

The closing cor. of secs. 15 and 22, T. 32 N., R. 1 E., NM Prin. Mer., New Mexico, bears S. 1° 20′ W., 71.02 chs. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

36.00 Foot of descent, near head of draw; ascend 707 ft. over NE., S., and SE. slopes.

40.30 Leave aspen; continue through dense oak brush.

52.80 Crest of saddle ridge, bears N. 70° W. and SE.; slope changes to S.

55.61 The Carpenter 123rd Mi. Cor. bears North, 56.14 chs. dist.; an iron post, firmly set in ground and mound of earth; I remove the brass cap from the post and obliterate the marks on the four bearing trees; the post was left to preserve the point as a line corner on the S. boundary of the Crawley Ranch.

62.00 Slope changes to SE.

72.80 Top of sandstone rim rock, 20 ft. high, bears NE. and SW.

73.90 Top of 2nd sandstone rim rock, bears N. 30° E. and S. 30° W.

74.03 The closing cor. of secs. 22 and 23, T. 32 N., R. 1 E., NM Prin. Mer., Colorado; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

77.20 Crest of mountain ridge, bears N. and S.; descend 12 ft. over W. slope.

78.80 Enter aspen, bears N. and S.

79.29 Perkins' 209th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.

Chains

THE PERKINS LINE, 209TH MILE

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 209, 1868-1925, and build a mound of stone around the monument;

from which

An aspen, 5 ins. diam., bears S. 44° W., 27 lks. dist., mkd. as recorded.

An aspen, 6 ins. diam., bears N. 24½° W., 26 lks. dist., mkd. as recorded.

An aspen, 4 ins. diam., bears S. 9° W., 4 lks. dist., mkd. NM 209 M BT.

An aspen, 4 ins. diam., bears N. 46½° W., 4 lks. dist., mkd. COLO 209 M BT.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, aspen clumps; undergrowth, oak brush.

THE PERKINS LINE, 210TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

30.52 Altitude observation on the sun for azimuth, August 7, 1932.

79.40 The 210th Mi. Cor. was not established by Perkins; continue distance.

91.24 N. 1 lk. to the parallel; thence the witness corner for the 210th Mi. Cor. bears S. 2.3 lks. dist.; on this determination the true line bears S. 89° 59' W.; thence West, continuing with new measurement, on a retracement of the Perkins boundary, on a transit line describing a tangent.

50.00 Altitude observation on the sun for azimuth, August 16, 1932.

57.25 N. 0.6 lks. to the parallel; thence the 211th Mi. Cor. bears S. 1.3 lks. dist.; on this determination the true line bears S. 89° 59' W.

THE PERKINS LINE: 210TH MILE

Chains *REESTABLISHMENT*

Thence from the 209th Mi. Cor. S. 89° 59' W., on a reestablishment of the 210th mile.

Descend 344 ft. over NW. and S. slopes, through aspen.

2.72 The closing cor. of secs. 15 and 16, T. 32 N., R. 1 E., NM Prin. Mer., New Mexico, bears South, 1.7 lks. dist.: an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

10.60 Sandstone rim rock, 10 ft. high, bears NE. and SW.

12.30 Canon, course S. 65° W. from NE.; thence over S. slope, crossing point of spur; leave aspen; enter scattering pine and oak brush.

17.55 Canon, course S.; ascend 257 ft. over SE. slope.

21.00 Top of sandstone rim rock, 25 ft. high, bears S. 70° W. and N. 35° E.

28.00 Top of sandstone rim rock, 20 ft. high, bears N. 10° E. and S. 10° W.

34.70 Crest of spur ridge, near S. end, bears NE. and SW.; descend 435 ft. over SW. slope.

45.25 Top of sandstone rim rock, 20 ft. high, bears N. 35° W. and S. 35° E.

49.10 Canon, course S. 15° W.; ascend 377 ft. over SE. slope

54.40 Top of sandstone rim rock, 15 ft. high, bears N. 10° W. and S. 10° E.

55.30 Top of sandstone rim rock, 18 ft. high, bears N. 15° W. and S. 15° E.

56.26 The Carpenter 122nd Mi. Cor. bears North, 55.90 chs. dist.: an iron post, firmly set in ground and mound of earth; I remove this monument and obliterate the marks on the two bearing trees.

63.10 Crest of spur ridge, bears N. 20° E. and S. 20° W.; descend 306 ft. over SW. slope.

73.20 Enter dense young aspen, bears N. 20° W. and SE.

73.86 The closing cor. of secs. 21 and 22, T. 32 N., R. 1 E., NM Prin. Mer., Colorado, bears South, 3.5 lks. dist.; an iron post, 2 ins. diam., with brass cap marked and witnessed as described in the official record.

79.26 The proportional point: the 210th Mi. Cor. was not established by Perkins.

Chains

THE PERKINS LINE, 210TH MILE

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 210, 1868-1925, and build a mound of stone around the monument.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, aspen and scattering pine; undergrowth, young timber and oak brush.

THE PERKINS LINE, 211TH MILE

REESTABLISHMENT

S. 89° 59' W., on a reestablishment of the 211th mile.

Descend 11 ft. over SW. slope, through young aspen

1.40 Trail in canon, course S. 20° W.: ascend 280 ft. over SE. slope

4.18 The closing cor. of secs. 16 and 17, T. 32 N., R. 1 E., NM Prin. Mer., New Mexico, bears South, 1 lk. dist.: an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

4.75 Top of sandstone rim rock, 15 ft. high, bears N. 20° E. and S. 20° W.: leave aspen; enter oak brush.

6.20 Top of 2nd sandstone rim rock, bears N. 20° E. and S. 20° W.

11.98 Perkins' witness corner to the 210th Mi. Cor.: an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record: the two bearing trees have died and are down.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 210 + 11.98 Chs., 1868-1925, and build a mound of stone around the monument;

from which

A pine, 6 ins. diam., bears S. 79° E., 26 lks. dist., mkd. WP NM BT.

Monument stands on a ridge, by a trail, bearing N. 40° E. and S. 30° W.

Chains THE PERKINS LINE, 211TH MILE

Thence descend 255 ft. over gently rolling land, beginning with gentle NW. slope, through scattering timber and dense undergrowth.

39.50 Slope changes to SW.

56.60 Trail in draw, course S. 60 W. from N. 50 E.; thence along a SE. slope.

61.83 The Carpenter 120.937 Mi. Cor. bears North, 55.68 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the three bearing trees.

62.50 Slope changes to SW.

73.56 The closing cor. of secs. 20 and 21, T. 32 N., R. 1 E., NM Prin. Mer., Colorado, bears North, 2 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record; corner is by W. side of a draw, course S. 30 W.; thence over SE. slope.

76.30 Slope changes to SW.

79.23 'Perkins' 211th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record, except the distance to the SW. tree, which is 151 lks.

Around the post,

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 211. 1868-1925, and build a mound of stone around the monument.

Land, broken mountainous and rolling mesa.

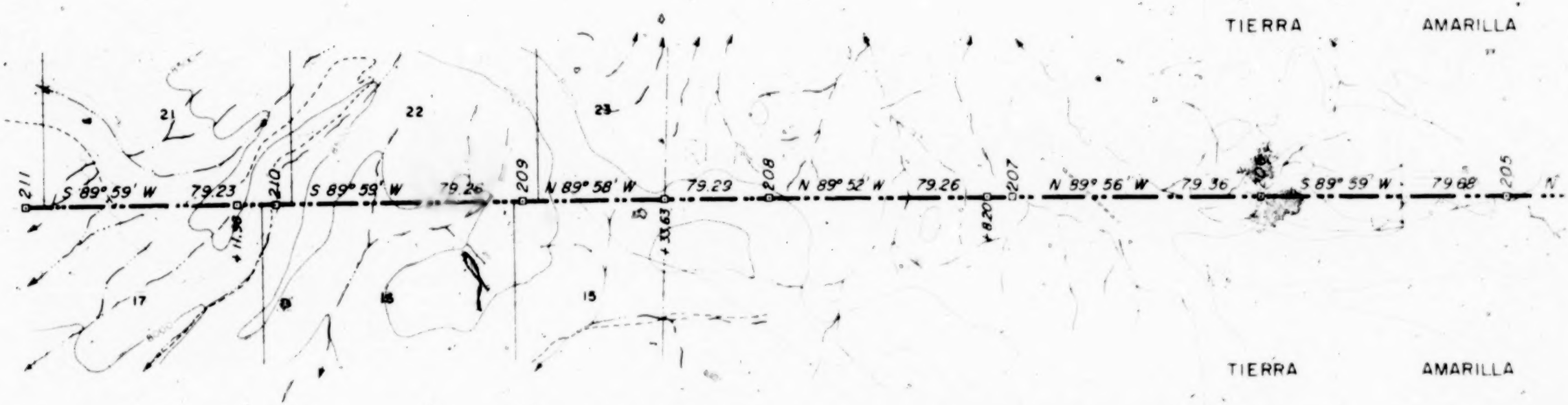
Soil, sandy and stony clay loam; 3rd rate.

Timber, pine with some aspen; undergrowth, oak brush.

C O L O R A D O

ARCHULETA COUNTY

TIERRA AMARILLA



TIERRA AMARILLA

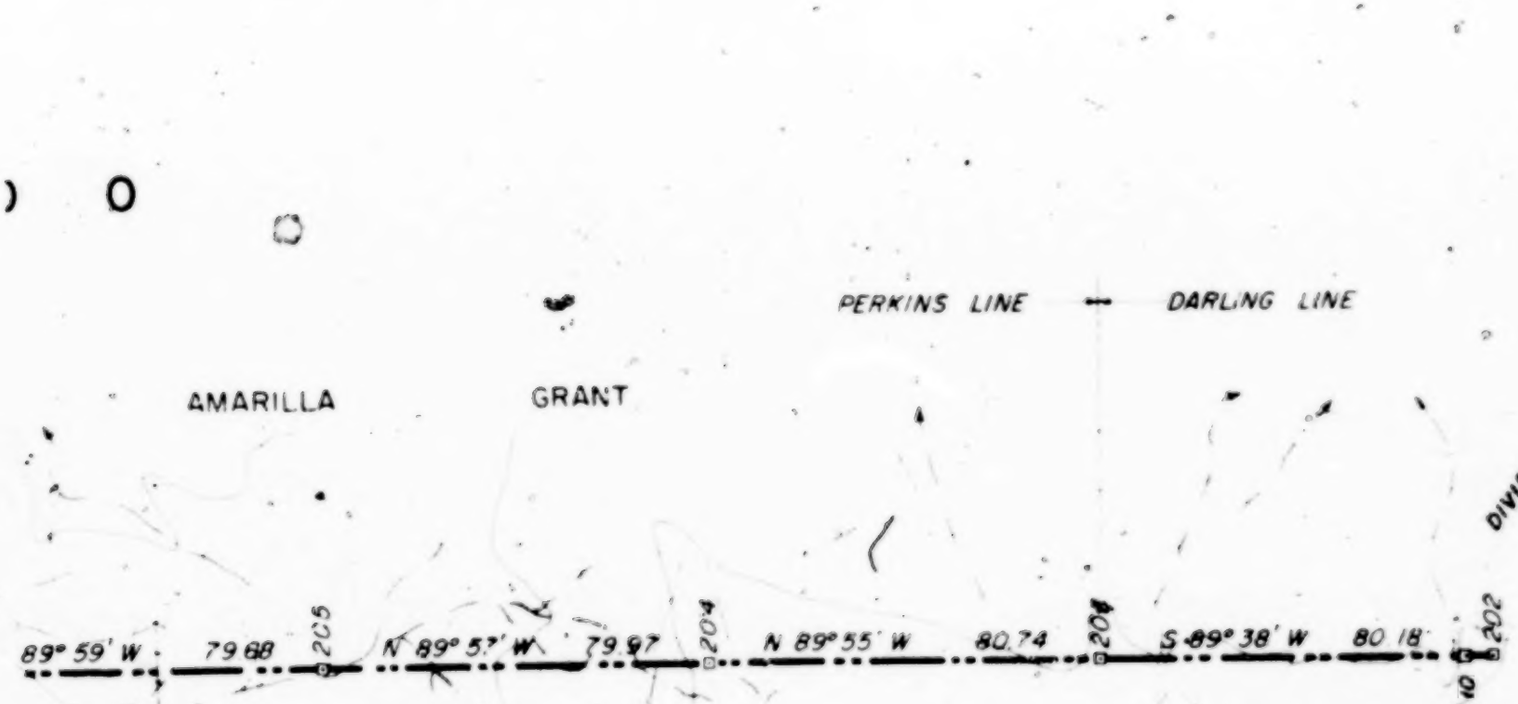
RIO ARRIBA COUNTY

N E W M E X I C O

SCALE

0 10 20 30 40

40 Chains to the inch



COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 14, 1925

Joseph B. Thoma
Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 211

to

MILE CORNER No. 220

THE PERKINS LINE, 212TH MILE

Chains *RETRACEMENT*

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

47.73 N. 0.3 lks. to the parallel; thence the South Angle Point bears N. 0.7 lks. dist.; on this determination the true line bears N. 89° 59′ W.; thence N. 38° 00′ W., continuing with new measurement, on a retracement of the Perkins boundary, on a transit line describing a tangent.

53.19 Thence the North Angle Point bears W. 3.3 lks. dist.; on this determination the true line bears N. 38° 02′ W.; thence West, continuing with new measurement, on a retracement of the Perkins boundary, on a transit line describing a tangent.

78.29 The 213th Mi. Cor. was not established by Perkins; continue distance.

79.15 N. 0.8 lks. to the parallel; thence the witness cor. for the 213th Mi. Cor. bears N. 5.3 lks. dist.; on this determination the true line bears N. 89° 58′ W.; thence West, continuing with new measurement, on a retracement of the Perkins boundary, on a transit line describing a tangent.

9.68 Altitude observation on the sun for azimuth, August 22, 1932.

78.30 N. 0.8 lks. to the parallel; thence the 214th Mi. Cor. bears S. 4.3 lks. dist.; on this determination the true line bears S. 89° 58′ W.

REESTABLISHMENT

Thence from the 211th Mi. Cor. N. 89° 59′ W., on a reestablishment of the 212th mile.

Descend 230 ft. over SW. slope, through timber and undergrowth.

5.48 The closing cor. of secs. 17 and 18, T. 32 N., R. 1 E., NM Prin. Mer., New Mexico, bears South, 1 lk. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

25.20 Old log chute in small canon, course S. 70° W.; ascend 52 ft. over SE. slope.

32.10 Top of ascent; descend 468 ft. over S. and SW. slopes.

38.30 Slope changes to steep SW.

Chains

THE PERKINS LINE, 212TH MILE

39.50 Over very steep sandstone ledges.

47.73 Perkins' South Angle Point Cor.: an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked AP Mile Corner No. 211 + 47.73 Chs., 1868-1925, and build a mound of stone around the monument:

from which

Cross on a sandstone boulder, bears N. 14¾ E., 22.5 lks. dist., mkd. as recorded in the official record.

A yellow pine, 18 ins. diam., bears S. 43½ W., 148 lks. dist., mkd. as recorded in the official record.

A fir, 14 ins. diam., bears N. 59½ W., 166 lks. dist., mkd. DAR NM BT.

A fir, 22 ins. diam., bears N. 63½ E., 77 lks. dist., mkd. as recorded in the official record.

Cross on a sandstone boulder, bears S. 66½ E., 48 lks. dist., mkd. as recorded in the official record.

Thence from the South Angle Point, Mi. Cor. No. 211 + 47.73 Chs., N. 38° 02′ W., continuing on a reestablishment of the 212th mile, on the Ewell Canon Connection.

Descend 135 ft. over very broken SW. slope along the E. wall of Ewell Canon crossing draws and spurs sloping to the creek from the rim, through timber and undergrowth.

52.58 Small draw, course S. 15° W.

59.16 The closing cor. of secs. 7 and 18, T. 32 N., R. 1 E., NM Prin. Mer., New Mexico, bears West, 16 lks. dist.: an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

63.64 The Carpenter 120th Mi. Cor. bears North, 43.21 chs. dist.: an iron post, firmly set in ground and mound of earth; I remove this monument and obliterate the marks on the four bearing trees.

65.68 Draw, course S. 52° W.

78.73 Draw, course S. 52° W.

Chains

THE PERKINS LINE, 212TH MILE

88.72 The closing cor. of secs. 19 and 20, T. 32 N., R. 1 E., NM Prin. Mer., Colorado, bears East, 4 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

88.77 A yellow pine, 24 ins. diam., bears East, 2 lks. dist., mkd. with two notches on S. 38 E. and N. 38 W. faces.

99.00 The proportional point for Perkins' 212th Mi. Cor.; the corner was not established by Perkins; I did not establish this corner.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, spruce, fir, cedar, and pinon; undergrowth, oak brush.

THE PERKINS LINE, 213TH MILE

REESTABLISHMENT

Thence from the point for the 212th Mi. Cor., N. 38° 02' W., on a reestablishment of the 213th mile on the Ewell Canon Connection.

Descend 24 ft. to North Angle Point over SW. slope, through timber and undergrowth.

1.92 Perkins' North Angle Point Cor.; an iron post, 3 ins. diam., 16 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record, and only the stumps are left of the bearing trees.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked AP Mile Corner No. 212 + 1.18 Chs., 1868-1925, and build a mound of stone around the monument.

from which

A Douglas fir, 10 ins. diam., bears S. 48¼° E., 116 lks. dist., mkd. AP COLO BT.

A Douglas fir, 15 ins. diam., bears S. 56½° W., 118 lks. dist., mkd. AP NM BT.

Perkins' SE. rock is mkd. BO 212 +.

Perkins' NW. rock is mkd. BO 212 +.

hains THE PERKINS LINE, 213TH MILE

Thence from the North Angle Point, Mi. Cor. No. 212 + 1.18 Chs., N. 89° 58' W., continuing on a reestablishment of the 213th mile.

Descend 100 ft. over SW. slope, through timber and undergrowth.

6.08 Ewell Creek, 5 lks. wide, banks 2 ft. high, stream 6 ins. deep, course from S. 38° E. turning W., approximately 7 lks. N. of line.

6.48 The closing cor. of the NM Prin. Mer., New Mexico, bears South, 4 lks. dist.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

7.08 Creek, N. of line, turns N. 38° W.; ascend 463 ft. over NE. slope.

7.68 Road, bears N. 20° W. and S. 20° E.

7.90 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 212 + 7.90 Chs., 1868-1925, and build a mound of stone around the monument;

from which

A white fir, 8 ins. diam., bears S. 46½° W., 42 lks. dist., mkd. WP NM BT.

A white fir, 8 ins. diam., bears N. 64½° W., 34 lks. dist., mkd. WP COLO BT.

13.28 Crest of spur ridge, bears N. 30° W. and S. 30° E.; descend 336 ft. over NW. and SW. slopes.

21.58 Crest of low ridge, bears N. 15° W. and SE.; slope changes to SW.

37.91 The Carpenter 119th Mi. Cor. bears North, 13.74 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument.

74.09 The closing cor. of the NM Prin. Mer., Colorado; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

79.33 The point for Perkins' 213th Mi. Cor., as determined by the witness corner to the 213th Mi. Cor.

Construct a concrete monument, in a form 8x14x36 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner

Chains

THE PERKINS LINE, 213TH MILE

No. 213, 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 8 ins. diam., bears S. 30¾ W., 102 lks. dist., mkd. NM 213 M BT.

A yellow pine, 16 ins. diam., bears N. 5° W., 29 lks. dist., mkd. COLO 213 M BT.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, spruce, fir, balsam, and aspen; undergrowth, young timber and oak brush.

THE PERKINS LINE, 214TH MILE

REESTABLISHMENT

N. 89° 58' W., on a reestablishment of the 214th mile.

Ascend 4 ft. along SE. slope, through timber and undergrowth.

1.00 Perkins' witness corner to the 213th Mi. Cor.: an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record, except the marking "WC" was not found on any tree; I add the marks WC to the remaining trees.

Thence S. 89° 58' W., continuing on a reestablishment of the 214th mile.

Descend 380 ft. over broken SW. and W. slopes, through timber and undergrowth.

3.89 The closing cor. of secs. 11 and 12, T. 32 N., R. 1 W., NM Prin. Mer., New Mexico, bears South, 1 lk. dist., an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

6.20 Draw, course S. 20° W.

26.50 Slope changes to W.

34.92 The closing cor. of the N. and S. center line of sec. 24, T. 32 N., R. 1 W., NM Prin. Mer., Colorado; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

Cor. is by a fence cor.

hains THE PERKINS LINE, 214TH MILE

38.70 Trail, bears NE. and SW.

42.85 Irrigation ditch, 10 lks. wide, 2 ft. deep, course S. 20 W.

49.90 Construct a concrete monument, in a form 16x24x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 213 + 49.90 Chs., 1868-1925, and build a mound of stone around the monument; leave oak brush at foot of steep W. slope, bears N. 10 W. and S. 10 E.

50.10 N. side of state line marker, set by Blair Burwell, in 1901; a sandstone, 14x4x28 ins. above ground, firmly set, mkd. COL. WC 214 M on N. face.

50.30 Road from Chromo, Colorado, to Lumberton, New Mexico, bears N. 10 W. and S. 10 E.

50.81 The Carpenter 118.1 Mi. Cor. bears North, 13.78 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the bearing tree.

52.20 Creek, 5 lks. wide, 6 ins. deep, course N. 10 W. turning to N. 25 W.; ascend 19 ft. over NE. slope.

55.30 Top of ascent; descend 49 ft. over NW. slope.

55.60 Draw, course N. 15 W.; ascend 31 ft. over NE. slope.

56.20 Top of ascent; descend 58 ft. over NW. slope.

57.70 Enter Navajo valley and farm land, bears NE. and SW.

74.97 The closing cor. of secs. 23 and 24, T. 32 N., R. 1 W., NM Prin. Mer., Colorado; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

79.30 Perkins' 214th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post:

Construct a concrete monument, in a form 8x14x36 ins., standing 32 ins. above the ground, with rectangular base, 21x21x24 ins., top level with ground surface, with tablet seated in the top marked Mile Corner No. 214, 1868-1925.

Land, rolling and broken mountainous.

Soil, sandy and stony clay; 3rd rate; valley gumbo; 2nd rate.

Timber, pine in E. end of mile and cottonwoods near 214 Mi. Cor. undergrowth, oak brush.

The Perkins Line, 215th Mile

Chains

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

25.07 N. 0.4 lks. to the parallel; thence the Perkins Astronomical Monument No. 7 bears S. 0.4 lks. dist.; on this determination the true line bears S. 89° 59' W.; thence West, continuing with new measurement, on a retracement of the Perkins boundary, on a transit line describing a tangent.

8.83 Reference point for hour angle observation of Polaris for azimuth August 29, 1932.

56.67 N. 0.4 lks. to the parallel; thence the 215th Mi. Cor. bears S. 0.4 lks. dist.; on this determination the true line bears S. 89° 57' W.

REESTABLISHMENT

Thence from the 214th Mi. Cor. S. 89° 59' W., on a reestablishment of the 215th mile

Descend 13 ft. over nearly level bottom land, through cultivated field.

1.20 Draw, drains NW.

5.60 Left bank of the Navajo River, bears N. and S. 30° W.; maximum depth of stream 2 ft., course S. 30° W. from N.; leave field.

6.60 Right bank of river, bears N. and S. 30° W.

7.33 Woods road, bears N. 15° E. and S. 15° W.

10.00 Sawdust pile, 20 ft. high.

16.20 Leave sawdust pile; enter field, bears N. 15° E. and S. 15° W.

25.07 Darling's Astronomical Monument No. 7, as reestablished by Perkins in 1917; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., standing 32 ins. above the ground, with rectangular base, 21x21x24 ins., top level with ground surface, with tablet seated in the top marked Mile Corner No. 214 + 25.07 Chs., 1868-1925, elevation of tablet 7013.237 ft. above sea level;

THE PERKINS LINE, 215TH MILE

from which

United States Geological Survey Bench Mark, bears N. 47° 36' E., 7.045 chs. dist.; an aluminum tablet, set in top of a sandstone, 6x6x4 ins. above ground, firmly set, marked as described in the official record, published elevation 7038.356 ft. Bench Mark stands at the NW. corner of the old commissary building, Edith, Colorado.

Corner of Edith Schoolhouse, bears N. 24° 53' E., 3.71 chs. dist.

Thence from Darling's Astronomical Monument No. 7, Mi. Cor. No. 214 + 25.07 Chs., S. 89° 57' W., continuing on a reestablishment of the 215th mile.

Over level bottom land in field.

25.97 Foot of Cemetery Hill, bears N. 20° E. and S. 20° W.; ascend 165 ft. over S. 70° E. and N. slopes; leave field.

27.57 Road, bears N. 20° E. and S. 20° W.

27.67 Darling's Astronomical Monument No. 7, as reestablished by Blair-Burwell, in 1901; a sandstone, 6x18x16 ins. above ground, firmly set, mkd. COLO on N., NM on S., 901 on E., and B on W. face.

32.67 Crest of spur of Cemetery Hill, slopes N. 55° E.; thence along N. slope.

34.00 Construct a concrete monument, in a form 8x14x36 ins.; set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 214 + 34 Chs., 1868-1925, and build a mound of stone around the monument.

Monument stands on crest of Cemetery Hill; thence along top of hill.

35.35 The N. corner of cemetery fence, bears S., 5 lks. dist.; cemetery contains about 1 acre; descend 156 ft. over NW. slope.

43.27 Foot of Cemetery Hill, bears NE. and SW.; enter field in Coyote Creek valley.

45.52 Coyote Creek, 20 lks. wide, 6 ins. deep, immediate course S. 20° W.; general course S.

50.27 Begin ascent of 190 ft. over gentle E. slope.

53.21 The Carpenter Astronomical Monument No. 3, bears North, 13.41 chs. dist.; a sandstone, 12x14x78 ins., firmly set; I obliterate the marks on the stone and remove it from the field.

Chains	
	THE PERKINS LINE, 215TH MILE
59.16	The Carpenter 117th Mi. Cor. bears North, 13.48 chs. dist., an iron post, firmly set in ground and mound of earth; I remove the monument.
62.37	Leave field, enter scattering timber and undergrowth, bears N. 70° W. and S. 70° E.; leave valley; slope changes to NE.
66.00	Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 214 + 66 Chs., 1868-1925, and build a mound of stone around the monument.
	from which
	A pine, 24 ins. diam., bears S. 72° W., 243 lks. dist., mkd. WI NM BT.
	A pine, 24 ins. diam., bears N. 49½° W., 62 lks. dist., mkd. WI COLO BT.
	East edge of square top peak bears N. 20¾° E., vertical angle + 2½'.
	South point of Banded peak, bears N. 70° 28' E., vertical angle +3° 10'.
75.97	The closing cor. of secs. 22 and 23, T. 32 N., R. 1 W., NM Prin. Mer., Colorado; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.
81.74	Perkins' 215th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.
	Around the post
	Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 215, 1868-1925, and build a mound of stone around the monument.
	from which
	A pine, 20 ins. diam., bears N. 40° E., 133 lks. dist., mkd. as recorded.
	A pine, 16 ins. diam., bears S. 16¾° E., 168 lks. dist., mkd. as recorded.
	A pine, 14 ins. diam., bears S. 30° W., 200 lks. dist., mkd. as recorded.
	A sandstone, bears S. 27½° W., 71 lks. dist., not mkd.

THE PERKINS LINE, 215TH MILE

A pine, 16 ins. diam., bears N. 53¼ W., 190 lks. dist., mkd. as recorded.

Land, gently rolling valley and slightly mountainous over Cemetery Hill and W. of valley.

Soil, sandy and rocky clay and gumbo; 2nd and 3rd rate.

Timber, pine; undergrowth, oak brush.

THE PERKINS LINE, 216TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

82.54 N. 0.8 lks. to the parallel; thence the 216th Mi. Cor. bears S. 3.8 lks. dist.; on this determination the true line bears S. 89° 58' W.

REESTABLISHMENT

Thence from the 215th Mi. Cor. S. 89° 58' W., on a reestablishment of the 216th mile.

Ascend 715 ft. over broken E. slope, through timber and undergrowth.

3.78 The closing cor. of secs. 9 and 10, T. 32 N., R. 1 W., NM Prin. Mer., New Mexico, bears North, 3 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

9.10 Crest of ridge, bears NE. and SW.

15.00 Road, bears N. 30° E. and S. 30° W.

35.60 Slope changes to SE.

38.80 Same road, bears N. 55° W. and S. 55° E.

42.00 Slope changes to NE.

49.17 Fence, bears N. and S.; E. and W. road bears N., 40 lks. dist.; thence along S. side of road.

57.60 Road turns NW.

59.27 The Carpenter 116th Mi. Cor. bears North, 13.73 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the three bearing trees.

THE PERKINS LINE; 216TH MILE

60.00 Small stream, 1 lk. wide, 2 ins. deep, course S. 85° E.

74.11 The closing cor. of secs. 21 and 22, T. 32 N., R. 1 W., NM Prin. Mer., Colorado, bears North, 1.5 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

74.40 Seepage of water, course S. 70° E.

81.65 Fence, bears N. 35° W. and S. 35° E.

82.54 Perkins' 216th Mi. Cor.: an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner No. 216, 1868-1925, and build a mound of stone around the monument.

from which

Cross on sandstone boulder, bears N. 18° W., 24 lks. dist., mkd as recorded.

Land, mountainous, E. slope of Archuleta Mountain.

Soil, sandy and stony black loam; 2nd rate.

Timber, pine; undergrowth, oak brush and alders.

THE PERKINS LINE, 217TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

83.02 N. 0.8 lks. to the parallel; thence the 217th Mi. Cor. bears S. 54 lks. dist.; on this determination the true line bears S. 89° 58' W.

REESTABLISHMENT

Thence from the 216th Mi. Cor. S. 89° 58' W., on a reestablishment of the 217th mile.

Ascend 1152 ft. over broken SE. slope, through scattering timber and dense undergrowth; up a small drain.

0.25 Small stream, 4 lks. wide, general course S. 60° E.

hours

THE PERKINS LIST, 217TH MILE

1.20 Leave stream bed.

2.28 The closing cor. of secs. 8 and 9, T. 32 N., R. 1 W., NM Prin. Mer., New Mexico, an iron post, 2 ins. diam., firmly set, with brass cap, marked and witnessed as described in the official record.

7.00 Draw, course SE.

28.00 Slope becomes gradual.

31.54 South, 1.5 lks. dist., an iron post, 2 in. diam., firmly set, with brass cap mkd. COLO. ¼ CC in N., TR 44 in E., S 21 in W., S 8, NM. 1918 COLO in S. quadrants.

32.50 Slope changes from gradual to steep SE.

34.50 Enter aspen, spruce, and fir timber, bears N. 70 W. and S. 70 E.

58.30 Foot of slide rock, bears NE. and SW., leave timber and undergrowth.

63.40 Leave slide rock, reenter timber and undergrowth.

63.87 The Carpenter 114.9 Mi. Cor. bears North, 13.71 chs. dist., an iron post, firmly set in ground and mound of stone. I remove this monument and obliterate the marks on the four bearing trees.

71.37 The closing cor. of secs. 20 and 21, T. 32 N., R. 1 W., NM Prin. Mer., Colorado, an iron post, 2 ins. diam., firmly set, with brass cap, marked and witnessed as described in the official record.

76.90 Top of steep ascent on E. face of Archuleta Mountain, bears NE. and S. 30 W.

78.70 Crest of Archuleta Mountain, descend 13 ft. over gentle NW. slope.

82.59 The closing cor. of secs. 7 and 8, T. 32 N., R. 1 W., NM Prin. Mer., New Mexico, an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

85.02 Perkins' 217th Mi. Cor., an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x35 ins., set 16 ins. in the ground to bed rock, with tablet seated in the top marked Mile Corner No. 217, 1868-1925, and build a mound of stone around the monument.

Chains

THE PERKINS LINE, 217TH MILE

from which

A yellow pine, 28 ins. diam., bears S. 88° E., 161 lks. dist., mkd. as recorded.

A fir, 20 ins. diam., bears N. 68° W., 172 lks. dist., mkd. as recorded.

Land, mountainous, E. slope and crest of Archuleta Mountain.

Soil, stony clay loam; 2nd and 3rd rate.

Timber, pine, spruce, fir, and aspen; undergrowth, oak brush.

THE PERKINS LINE, 218TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

05.68 N., 11 lks. to the parallel, thence the 218th Mi. Cor. bears N. lks. dist., on this determination the true line bears West.

REESTABLISHMENT

Thence from the 217th Mi. Cor. West, on a reestablishment of the 218th mile.

Descend 160 ft. over gentle NW. slope, through timber and undergrowth.

25.75 Draw, drains S. 60° W., ascend 15 ft. over gentle SE. slope.

30.00 Enter grove of aspen, bears N. 70° W. and S.

32.08 Top of ascent, descend 250 ft. over SW. slope.

45.70 Leave aspen grove, bears N. 20° W. and S. 20° E., enter open park.

51.00 Leave open park, enter timber and undergrowth.

54.63 The Carpenter 114th Mi. Cor. bears North, 13.61 chs. dist., an iron post, firmly set in ground and mound of stone. I remove this monument and obliterate the marks on the three bearing trees.

58.00 Enter aspen grove, bears N. and S.

60.30 Leave aspen grove, bears N. and S., continue through timber and undergrowth.

62.98 Draw, course S., ascend 15 ft. over SE. slope.

THE PERKINS LINE, 218TH MILE

68.22 The closing cor. of secs. 19 and 20, T. 32 N., R. 1 W., NM Prin. Mer., Colorado, bears North, 4.5 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record

68.50 Top of ascent, descend 92 ft. over gentle W. slope

74.07 The closing cor. of Tps. 32 N., Rs. 1 and 2 W., NM Prin. Mer., New Mexico, and the NE. cor. of the Jicarilla Apache Indian Reservation, bears North, 3.5 lks. dist.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record

75.68 Perkins' 218th Mi. Cor., an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 22 ins. in the ground, with tablet seated in the top marked Mile Corner No. 218, 1868-1925, and build a mound of stone around the monument.

from which

A yellow pine, 20 ins. diam., bears N. 22½ E., 66 lks. dist., mkd. as recorded.

A yellow pine, 24 ins. diam., bears S. 56 E., 28 lks. dist., mkd. as recorded.

A yellow pine, 22 ins. diam., bears S. 13 W., 119 lks. dist., mkd. as recorded.

A yellow pine, 18 ins. diam., bears N. 80½ W., 138 lks. dist., mkd. as recorded

Land, rolling mountainous, top of Archuleta Mountain.

Soil, sandy and stony clay-loam, 2nd and 3rd rate

Timber, pine, spruce, fir, and aspen; undergrowth, oak brush.

THE PERKINS LINE, 219TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

Chains THE PERKINS LINE, 219TH MILE

84.41 Altitude observation on the sun for time, and hour angle observati of Polaris for azimuth, September 1, 1932.

95.76 The 219th Mi. Cor. was not established by Perkins.

113.21 N. 1.6 lks. to the parallel; thence the witness corner for the 21 Mi. Cor. bears S. 3.0 lks. dist.; on this determination the t line bears S. 89° 59' W.; thence West, continuing with new me urement, on a retracement of the Perkins boundary, on a tran line describing a tangent.

78.22 N. 0.8 lks. to the parallel; thence the 220th Mi. Cor. bears S. 1 lks. dist.; on this determination the true line bears S. 89° 55' W

REESTABLISHMENT

Thence from the 218th Mi. Cor. S. 89° 59' W., on a reestablishme of the 219th mile.

Descend 290 ft. over broken SW. slope, through timber and und growth.

9.90 Enter small grove of aspen, bears NE. and SW.

12.10 Leave aspen grove, bears N. and S.; continue through timber a undergrowth.

22.30 Draw, course S. 70° W. from N. 60° E.

28.36 The Gannett Monument, established at the intersection of the 10 meridian and the 37th parallel of latitude, bears North 10 chs. dist.

31.15 Same draw, course NW., 30 lks. to mouth.

32.60 Large draw, course S. 50° W. from N. 80° E.; ascend 28 ft. over S slope.

37.00 Top of ascent; descend 44 ft. over W. slope.

39.23 The Carpenter 113th Mi. Cor. bears North, 13.51 chs. dist.; an i post, firmly set in ground and mound of stone; I remove t monument and obliterate the marks on the four bearing trees.

44.30 Small draw, course S. 20° W.

47.50 Small draw, course S.; ascend 15 ft. over E. slope.

49.83 The closing cor. of Tps. 32 N., Rs. 1 and 1½ W., NM Prin. M Colorado, bears North, 1 lk. dist.; an iron post, 3 ins. diam.,

hains THE PERKINS LINE, 219TH MILE

ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

51.60 Top of ascent; descend 210 ft. over W. slope.

58.15 The closing cor. of secs. 11 and 12, T. 32 N., R. 2 W., NM Prin. Mer., New Mexico; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

70.40 East rim of small box canon, bears N. and S.

72.60 Bottom of canon, course S.; ascend 120 ft. over E. slope.

74.70 West rim of canon, bears N. and S.

78.30 Crest of spur ridge, bears N. and S.; descend 340 ft. over W. and S. slopes.

84.31 Outcrop of rock, on E. side of a box canon.
I seat a tablet in the rock marked Mile Corner No. 218 — 84.31 Chs., 1868-1925.

4.49 East rim of a box canon; rim rock, 65 ft. high, bears N. 10° E. and S. 30° W.

9.71 The closing cor. of Tps. 32 N., Rs. 1½ and 2 W., NM Prin. Mer., Colorado, bears North, 35.5 lks. dist.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

0.30 Creek in canon, 7 lks. wide, 4 ins. deep, course S., turning to S. 75° W. about 40 lks. S.

0.95 Creek in canon, 4 lks. wide, 2 ins. deep; course S. 20° W.; thence along S. slope.

5.71 The proportional point; the 219th Mi. Cor. was not established by Perkins.
Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 219, 1868-1925, and build a mound of stone around the monument;
from which
A pine, 17 ins. diam., bears N. 12½° E., 51 lks. dist., mkd. COLO 219 M BT.
A Douglas fir, 9 ins. diam., bears S. 58½° W., 54 lks. dist., mkd. NM 219 M BT.

Chains THE PERKINS LINE, 219TH MILE

Land, rolling and broken mountainous, W. slope of Archuleta Mountain.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, spruce, fir, and aspen; undergrowth, young timber and oak brush.

THE PERKINS LINE, 220TH MILE

REESTABLISHMENT

S. 89° 50' W., on a reestablishment of the 220th mile.

Descend 16 ft. over SW. slope, through timber and undergrowth.

2.30 Foot of descent; ascend 24 ft. over SE. slope.

4.30 Top of ascent; descend 70 ft. over SW. slope.

7.44 The Carpenter 112.2 Mi. Cor. bears North, 13.40 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the three bearing trees.

11.50 Draw, course S.; ascend 123 ft. over SE. slope.

17.49 Perkins' witness corner to the 219th Mi. Cor.; an iron post, 3 ins. diam., 24 ins. above ground, firmly set in ground and mound of stone, with brass cap marked and witnessed as described in the official record.

In place of post

Construct a concrete monument, in a form 8x14x36 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner No. 219 + 17.49 Chs., 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 22 ins. diam., bears S. 57° E., 64 lks. dist., mkd. as recorded.

A dead yellow pine, 14 ins. diam., bears N. 58¾° W., 32 lks. dist., mkd. as recorded.

Monument stands on crest of a ridge, bearing N. 10° E. and S. 10° W.

Thence S. 89° 55' W., continuing on a reestablishment of the 220th mile.

Descend 60 ft. over SW. slope, through timber and undergrowth

THE PERKINS LINE, 220TH MILE

Chains	
21.29	Foot of descent; ascend 15 ft. over E. slope.
23.39	Crest of small ridge, bears N. 10° E., and S. 10° W.; descend 220 ft. over SW. slope.
31.29	Draw in small canon, course SW.; ascend 52 ft. over SE. slope.
36.09	Crest of spur, slopes S. 30° W.; descend 285 ft. over NW. slope.
42.21	The closing cor. of secs. 10 and 11, T. 32 N., R. 2 W., NM Prin. Mer., New Mexico, bears North, 9 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record, except it is marked R. 3 W. instead of R. 2 W.
45.04	Draw in canon, course S.; ascend 76 ft. over SE. slope.
49.14	Crest of spur, slopes S.; descend 371 ft. over broken top of spur and over NW. slope.
56.69	Leave top of spur; descend steep NW. slope.
63.89	Enter draw from N. 80° E. turning to W.
68.39	Creek, in Seguro Canon, 5 lks. wide, 6 ins. deep, course S. 35° W. from N.; ascend 247 ft. over SE. slope.
73.77	The closing cor. of secs. 23 and 24, T. 32 N., R. 2 W., NM Prin. Mer., Colorado, bears North, 8 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.
75.99	Broken sandstone rim rock, 30 ft. high, bears NE. and SW.
78.09	Crest of the S. end of rough, rocky spur, slopes S. 30° E.; descend 131 ft. over SW. slope.
78.59	Top of sandstone cliff, 60 ft. high, bears N. 70° W. and S. 70° E.
81.64	Draw in canon, course SE.; ascend 201 ft. over NE. slope.
87.79	Top of steep ascent; thence over gradual slope on top of ridge.
92.79	Crest of ridge, bears N. 15° W. and S. 15° E.; descend 21 ft. over SW. slope.
95.71	Perkins' 220th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Chains THE PERKINS LINE, 220TH MILE

Afound the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 220, 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 33 ins. diam., bears S. 35½ W., 82 lks. dist., mkd as recorded.

A yellow pine, 9 ins. diam., bears N. 55 W., 80 lks. dist., mkd as recorded.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine; undergrowth, oak brush.

C O L O R A D O

ARCHULETA COUNTY

SOUTHERN UTE INDIAN RESERVATION

T 32 N., R 2 W.

T 32 N., R 1½ W.

T 32 N., R 1½ W.

T 32 N., R 1 W.

Canon

Seguro

220

S 89° 55' W 78.22

17.49

S 89° 59' W 17.49

279

24

S 89° 59' W 95.71

218

WEST 95.68

217 MOUNTAIN

S 89° 58' W 83.02

216

S 89° 58' W 82.54

215

S 89° 57' W 56.67

+66.00

Coyote

19

20

21

22

10

11

12

7

8

9

+17.49

+84.31

JICARILLA INDIAN RESERVATION

T 32 N., R 2 W.

T 32 N., R 1 W.

ARCHULETA COUNTY

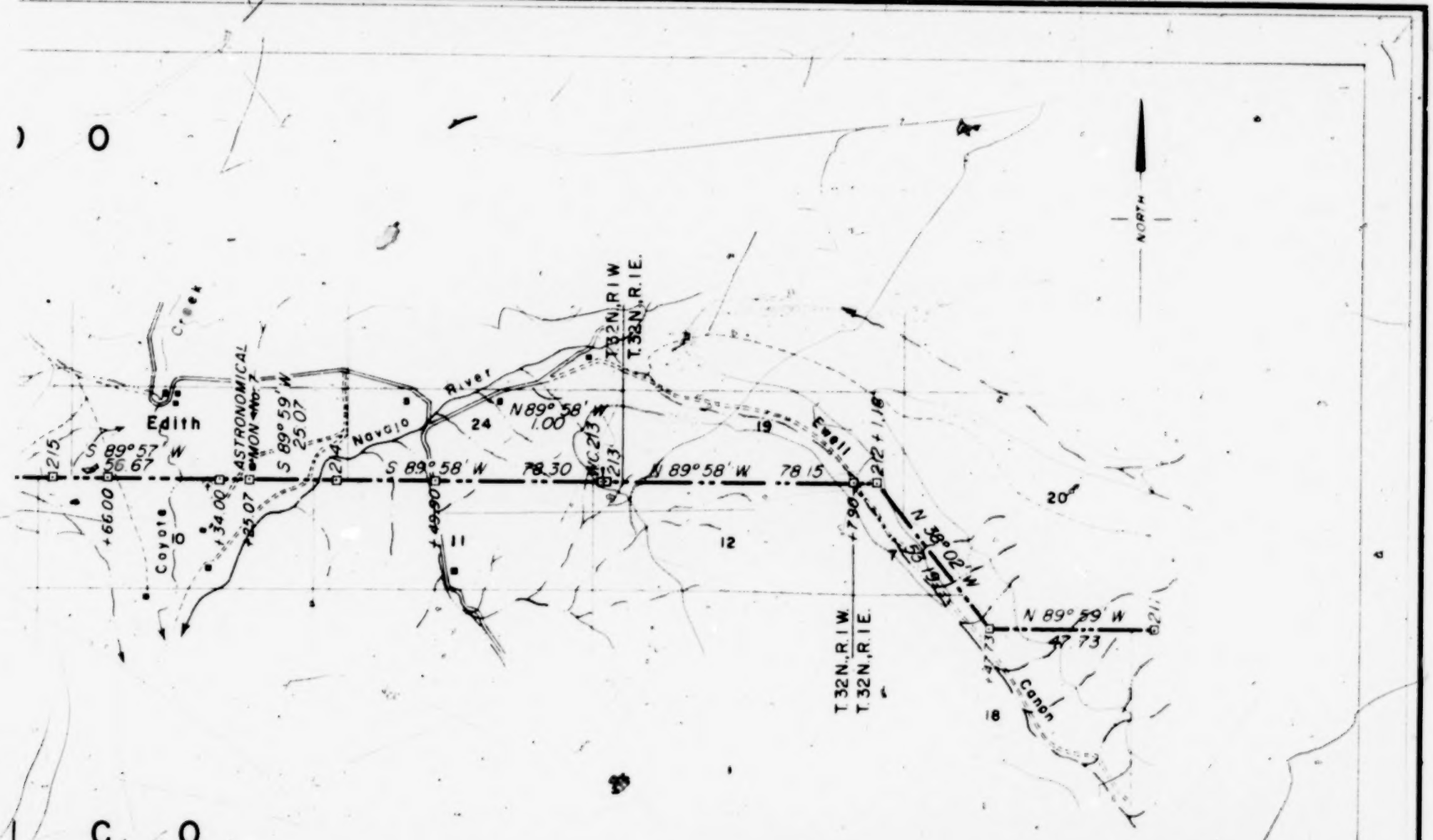
RIO ARRIBA COUNTY

N E W M E X I C

SCALE

0 10 20 30 40 80

40 Chains to the Inch



COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph A. Thoma

Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 220

to

MILE CORNER No. 228

THE PERKINS LINE, 221st MILE

Chains *RETRACEMENT*

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

95.76 The 221st Mi. Cor. was not established by Perkins; continue on tance.

112.24 N. 1.6 lks. to the parallel; thence the witness corner to the 221st Mi. Cor. bears S. 8.0 lks. dist.; on this determination the true line bears S. 89° 58' W.; thence West, continuing with new measurement, on a retracement of the Perkins boundary, on a transit line describing a tangent.

78.94 N. 0.8 lks. to the parallel; thence the 222nd Mi. Cor. bears N. 0 lks. dist.; on this determination the true line bears West.

REESTABLISHMENT

Thence from the 220th Mi. Cor. S. 89° 58' W., on a reestablishment of the 221st mile.

Descend 38 ft. over SW. slope, through timber and undergrowth.

9.80 Draw, drains S. 15° E.; ascend 12 ft. over E. slope.

4.25 Crest of rocky spur, slopes S.; descend 59 ft. over SW. slope.

6.14 The Carpenter 111th Mi. Cor. bears North, 13.04 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove the monument and obliterate the marks on the four bearing trees.

8.25 Draw in canon; course S. 30° E.; ascend 443 ft. over NE. slope.

26.50 The closing cor. of secs. 9 and 10, T. 32 N., R. 2 W., NM Prin. Mer. New Mexico, bears North, 4.5 lks. dist.; an iron post, 2 ins. diam. firmly set, with brass cap marked and witnessed as described in the official record.

28.00 Crest of spur, slopes S. 65° E. from N. 30° W.; descend 17 ft. over SW. slope.

30.30 Draw, course SE.; ascend 159 ft. over SE. slope.

36.65 Crest of high spur ridge, bears N. and S.; descend 235 ft. over SW. slope.

44.90 Draw in canon, course S.; ascend 216 ft. over SE. and NE. slopes.

48.40 Draw, course S. 65° E.; thence over NE. slope.

Chains THE PERKINS LINE, 221st MILE

57.90 The closing cor. of secs. 22 and 23, T. 32 N., R. 2 W., NM Prin Mer., Colorado, bears South, 5 lks. dist., an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

58.55 Crest of Alto Mountain, bears N. and S., W., descend 340 ft. over NW. slope.

75.80 Foot of descent; ascend 24 ft. over NE. slope.

78.50 Small spur, slopes N.; descend 72 ft. over NW. slope.

80.75 Draw, course N., ascend 74 ft. over NE. slope.

83.75 Crest of spur, slopes N.; descend 140 ft. over NW. slope.

86.71 The Carpenter 110th Mi. Cor. bears North, 13.29 chs. dist., an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the three bearing trees.

89.60 Draw in short canon, course NW.; ascend 89 ft. over NE. slope.

92.80 Spur, slopes N.; descend 26 ft. over NW. slope.

95.37 The proportional point; the 221st Mi. Cor. was not established by Perkins

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground with tablet seated in the top marked Mile Corner No. 221, 1868-1925, and build a mound of stone around the monument;

from which

A Douglas fir, 9 ins. diam., bears N. 80½ E., 76 lks. dist., mkd. COLO 221 M BT.

A Douglas fir, 6 ins. diam., bears S. 33¼ E., 20 lks. dist., mkd. NM 221 M BT.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, fir, spruce, and cedar; undergrowth, young timber; oak brush, and buck brush.

THE PERKINS LINE, 222ND MILE

Chains *REESTABLISHMENT*

S. 89 58' W., on a reestablishment of the 222nd mile.

Descend 364 ft. over NW. and SW. slopes, through timber and undergrowth.

0.16 A yellow pine, 22 ins. diam., mkd. with two notches on E. and W. face.

4.90 Slope changes to SW.

9.70 Slope changes to NW.

10.61 The closing cor. of secs. 8 and 9, T. 32 N., R. 2 W., NM Prin. Mer. New Mexico, bears North, 5 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

11.15 Top of a sandstone rim rock, 20 ft. high, bears NE. and SW.

12.80 Top of a sandstone rim rock, 20 ft. high, bears NE. and SW.

16.30 Foot of steep descent; enter valley, bears 30 E. and S. 30 W.

16.92 Perkins' witness corner to the 221st Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 221 + 16.92 Chs., 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 10 ins. diam., bears N. 81 E., 56 lks. dist., mkd. as recorded.

A yellow pine, 16 ins. diam., bears S. 29½ W., 168 lks. dist., mkd. as recorded.

A Douglas fir, 20 ins. diam., bears N. 34½ W., 50 lks. dist., mkd. as recorded.

Thence from Perkins' witness corner to the 221st Mi. Cor., West continuing on a reestablishment of the 222nd mile.

Descend 16 ft. over W. slope in valley, through timber and undergrowth.

Chains

THE PERKINS LINE, 222ND MILE

18.97 Creek, in Agua Canon, 6 lks. wide, 6 ins. deep, course SW.; leave valley; ascend 390 ft. over SE. slope.

41.37 Crest of spur, slopes SE.; descend 410 ft. over SW. slope.

42.60 The closing cor. of secs. 21 and 22, T. 32 N., R. 2 W., NM Prin. Mer., Colorado, bears South, 7 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

58.87 Draw in canon, course S. 7° W. from N. 11° E.; ascend 455 ft. over NE. slope.

71.58 The Carpenter 109th Mi. Cor. bears North, 13.06 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the two bearing trees.

73.97 Crest of spur, slopes S. 10° W.; descend 20 ft. over SW. slope.

75.92 Head of draw, course S. 10° E.; ascend 20 ft. over SE. slope.

78.32 Crest of spur ridge, bears N. 20° E. and S. 30° W.; descend 200 ft. over SW. slope.

80.77 The closing cor. of secs. 7 and 8, T. 32 N., R. 2 W., NM Prin. Mer., New Mexico; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

84.97 Draw, course SW.; ascend 10 ft. over SE. slope.

85.86 Perkins' 222nd Mi. Cor.: an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 222, 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 18 ins. diam., bears N. 3½° E., 24 lks. dist., mkd. as recorded.

A yellow pine, 14 ins. diam., bears S. 55° E., 36 lks. dist., mkd. as recorded.

A yellow pine, 14 ins. diam., bears S. 72½° W., 33 lks. dist., mkd. as recorded.

Chains

THE PERKINS LINE, 222ND MILE

A yellow pine, 16 ins. diam., bears N. 78° W., 76 lks. dist., mkd. as recorded.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, spruce, fir, cedar, and pinon; undergrowth, young timber, oak, service and buck brush.

THE PERKINS LINE, 223RD MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

95.59 N. 1.1 lks. to the parallel; thence the 223rd Mi. Cor. bears S. 1.0 lks. dist.; on this determination the true line bears West.

REESTABLISHMENT

Thence from the 222nd Mi. Cor. West, on a reestablishment of the 223rd mile.

Ascend 130 ft. over SE. slope, through timber and undergrowth.

6.00 Enter cedar and pinon timber in scattering pine and fir timber.

11.20 Crest of spur ridge, bears N. 50° E. and slopes S. 50° W.; descend 807 ft. over broken SW. slope.

27.06 The closing cor. of secs. 20 and 21, T. 32 N., R. 2 W., NM Prin. Mer., Colorado, bears South, 7.5 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

47.40 Enter draw, from N. 75° E.

49.70 Leave draw, turning to SW.

55.25 The Carpenter 108th Mi. Cor. bears North, 13.02 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the four bearing trees.

60.00 Draw, course S. 70° W.

62.00 Same draw, course N. 80° W.; thence along N. slope.

67.00 Spur, slopes N. 40° W.; thence over W. slope.

Chains

THE PERKINS LINE, 223RD MILE

73.32 The closing cor. of Tps. 32 N., Rs. 2 and 3 W., NM Prin. Mer., New Mexico, bears South, 4 lks. dist.; an iron post, 2 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

82.00 Draw in canon, course S. 10 W.; ascend 167 ft. over SE. slope.

84.55 Crest of spur, slopes S. 20 W.; descend 15 ft. over SW. slope.

85.59 Perkins' 223rd Mi. Cor.: an iron post, 3 ins. diam., 20 ins. above ground, firmly set in ground and mound of stone, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 223, 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 20 ins. diam., bears N. 26½ E., 131 lks. dist., mkd. as recorded.

A yellow pine, 20 ins. diam., bears S. 55½ W., 21 lks. dist., mkd. as recorded.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, spruce, fir, cedar, and pinon; undergrowth, young timber and oak brush.

THE PERKINS LINE, 224TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

82.80 N. 0.2 lks. to the parallel; thence the witness corner bears N. 0.2 lks. dist.; altitude observation on the sun for time, and hour angle observation of Polaris for azimuth, September 13, 1932; on this determination the true line bears West; thence West, continuing with new measurement, on a retracement of the Perkins boundary, on a transit line describing a tangent.

83.57 N. 0.2 lks. to the parallel; thence the 224th Mi. Cor. bears S. 0.2 lks. dist.; on this determination the true line bears West.

THE PERKINS LINE, 224TH MILE

REESTABLISHMENT

Chains	
	Thence from the 223rd Mi. Cor. West, on a reestablishment of the 224th mile.
	Descend 61 ft. over SW. slope, through timber and undergrowth.
3.10	Draw, course S. 20° W.; ascend 97 ft. over SE. slope.
10.30	Crest of spur, slopes S. 10° W.; descend 133 ft. over SW. slope.
11.61	The closing cor. of secs. 19 and 20, T. 32 N., R. 2 W., NM Prin Mer., Colorado, bears South, 7 lks. dist.; an iron post, 2 ins. diam. loosely set, with brass cap marked and witnessed as described in the official record. Corner leans badly to the S.
20.80	Foot of descent; ascend 25 ft. along S. slope.
23.00	Top of ascent, at top of sandstone cliff, 20 ft. high; descend 394 ft along cliff and over SW. slope.
28.50	Leave sandstone cliff, bears N. 70° W.
38.01	The point for the Carpenter 107.025 Mi. Cor. bears North, 12.9[illegible] chs. dist.; point falls in the present bed of the Navajo River; I obliterate the marks on the remaining bearing tree.
38.98	Telephone and telegraph line, bears N. 35° W. and S. 35° E.
40.80	Wagon road, bears N. 10° W. and S. 35° E.; foot of steep descent enter Navajo valley.
40.90	Construct a concrete monument, in a form 16x24x36 ins., set 24 ins in the ground, with tablet seated in the top marked Mile Corner No. 223 + 40.90 Chs., 1868-1925, and build a mound of stone around the monument.
41.23	Denver and Rio Grande Western Railroad, curving from SE. to N.
42.86	Darling's witness corner, as reestablished by Perkins in 1917; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.
44.00	Right bank of the Navajo River, bears N. 60° W. and S. 60° E., course of river N. 60° W.
46.80	Left bank of river, bears N. 60° W. and S. 60° E.
48.80	Leave valley; bears N. and S.; ascend 410 ft. over steep E. slope.

Chains

THE PERKINS LINE, 224TH MILE

55.89 The closing cor. of secs. 11 and 12, T. 32 N., R. 3 W., NM Prin. Mer., New Mexico, bears North, 2.5 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

58.50 Crest of spur, slopes S. 5° W.; descend 96 ft. over broken SW. slope.

70.15 Draw, course S. 20° E.

71.15 Draw, course SE.; draws join about 50 lks. S.; ascend 134 ft. over NE. slope.

86.43 Perkins' 224th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 224, 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 18 ins. diam., bears N. 61¾° E., 63 lks. dist., mkd. as recorded.

Cross on a sandstone boulder, bears N. 10° 55' W., 63.5 lks. dist., mkd. as recorded.

Land, broken mountainous.

Soil, sandy and stony clay; 2nd and 3rd rate.

Timber, pine, cedar, and pinon, with cottonwoods in river bottom; undergrowth, young timber, oak brush with willow brush in bottom.

THE PERKINS LINE, 225TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

78.75 N. 0.8 lks. to the parallel; thence the 225th Mi. Cor. bears S. 5.2 lks. dist.; on this determination the true line bears S. 89° 58' W.

THE PERKINS LINE, 225TH MILE

Chains *REESTABLISHMENT*

Thence from the 224th Mi. Cor. S. 89° 58' W., on a reestablishment of the 225th mile.

Ascend 16 ft. over rolling SE. and SW. slopes on low flat spur through timber and undergrowth.

1.33 The closing cor. of Tps. 32 N., Rs. 2 and 3 W., N.M. Prin. Mer. Colorado, an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

5.00 Top of ascent; descend 154 ft. over gentle SW. slope.

6.85 The Carpenter 106.338 Mi. Cor., bears North, 12.75 chs. dist.; 4 iron posts firmly set in ground and mound of stone. I remove this monument and obliterate the marks on the two bearing trees and on the bearing object.

10.60 Slope becomes steep.

18.40 Draw in small canon, course S. 30° E.; ascend 332 ft. over NE. and SE. slopes.

21.86 The closing cor. of the E. 1/16 sec. line, sec. 24, Colorado, an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

26.20 Slope changes to SE.

41.30 Top of ascent; descend 24 ft. over SW. slope.

42.46 The closing cor. of the center line of sec. 24, Colorado, bears North 1.5 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

44.25 Small draw, course SE.; ascend 218 ft. over E. slope.

54.09 The closing cor. of secs. 10 and 11, T. 32 N., R. 3 W., N.M. Prin. Mer., New Mexico, bears South, 10 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

56.10 Crest of ridge, bears N. 20° E. and S. 20° W.; descend 363 ft. over NW. slope.

65.29 The closing cor. of the W. 1/16 line, sec. 24, Colorado, bears North 4 lks. dist.; an iron post, 1 in. diam., firmly set with brass cap marked and witnessed as described in the official record.

THE PERKINS LINE, 225TH MILE

71.05 Draw in canon course N. 10 E., ascend 158 ft. over NE. slope

78.75 Perkins' 225th Mi. Cor.: an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 225, 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 10 ins. diam., bears N. 45° E., 49 lks. dist., mkd. as recorded.

A yellow pine, 12 ins. diam., bears S. 59° E., 102 lks. dist., mkd. as recorded.

Cross on a sand-stone boulder, bears S. 44° 07' W., 45.5 lks. dist., mkd. as recorded.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, cedar, and pinon; undergrowth, oak brush.

THE PERKINS LINE, 226TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

4.00 Altitude observation on the sun for azimuth, September 15, 1932.

6.40 Altitude observation on the sun for azimuth, September 17 and 19, 1932.

8.83 N. 0.8 lks. to the parallel; thence the 226th Mi. Cor. bears S. 0.2 lks. dist.; on this determination the true line bears West.

REESTABLISHMENT

Thence from the 225th Mi. Cor. West, on a reestablishment of the 226th mile

Ascend [illegible] ft. over NE. slope, through timber and undergrowth

Chains	THE PERKINS LINE, 226TH MILE
4.00	Crest of spur ridge, bears NW. and S.; descend 262 ft. over S. slope.
4.87	The closing cor. of secs. 23 and 24, T. 32 N., R. 3 W., NM P. Mer., Colorado; an iron post, 2 ins. diam., firmly set, with bra cap marked and witnessed as described in the official record.
10.16	The Carpenter 105.3 Mi. Cor. bears North, 12.64 chs. dist.; an iro post, firmly set in ground and mound of stone; I remove th monument and obliterate the marks on the four bearing trees.
20.55	Draw, at forks, course N. 25 W. from S. 70 E. and S. 15 E.; a cend 40 ft. over NE. slope.
22.15	Crest of small spur, slopes N. 25 W.; descend 63 ft. over NW. slop
22.67	The closing cor. of the E. 1/16 line, sec. 23, Colorado; an iron pos 1 in. diam., firmly set, with brass cap marked and witnessed a described in the official record.
25.10	Draw, course N.; ascend 63 ft. over NE. slope.
28.00	Crest of small spur, slopes N.; descend 45 ft. over NW. slope.
29.20	Draw, course N.; ascend 276 ft. over NE. slope.
40.03	The closing cor. of the center line, sec. 23, Colorado, bears South 10 lks. dist.; an iron post, 1 in. diam., firmly set, with brass ca marked and witnessed as described in the official record.
43.10	Top of steep ascent; thence over gentle NE. slope.
44.00	Top of ascent; descend 130 ft. over N. and NW. slopes.
51.96	The closing cor. of secs. 9 and 10, T. 32 N., R. 3 W., NM Prin. Mer New Mexico, bears South, 9 lks. dist.; an iron post, 2 ins. diam firmly set, with brass cap marked and witnessed as described i the official record.
57.10	Draw, near head of cañon, course N.; ascend 150 ft. over E. an NE. slopes.
63.50	The closing cor. of the W. 1/16 line, sec. 23, Colorado, bears North 9 lks. dist.; an iron post, 1 in. diam., firmly set, with brass ca marked and witnessed as described in the official record.
67.00	Crest of the divide between the Navajo and San Juan Rivers, bear N. 15 W. and S. 30 E.; descend 116 ft. over SW. slope.

THE PERKINS LINE, 226TH MILE

Chains

74.60 Draw, course S. 20° W.; ascend 50 ft. over SE. slope.

78.53 Perkins 226th Mi. Cor., an iron post, 3 ins. diam., 16 ins. above ground, firmly set in ground and mound of stone, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner No. 226, 1868-1925, and build a mound of stone around the monument;

from which

A pinon, 5 ins. diam., bears N. 53° E., 42 lks. dist., mkd. as recorded.

Monument stands on a small spur, sloping S.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, pinon, and cedar; undergrowth, oak brush.

THE PERKINS LINE, 227TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

7.50 Altitude observation on the sun for azimuth, September 19, 1932.

8.79 N. 0.8 lks. to the parallel; thence the 227th Mi. Cor. bears S. 5.3 lks. dist.; on this determination the true line bears S. 89° 58' W.

REESTABLISHMENT

Thence from the 226th Mi. Cor. S. 89° 58' W., for a reestablishment of the 227th mile.

Descend 310 ft. over SW. and W. slopes, through timber and undergrowth.

9.03 The closing cor. of secs. 22 and 23, T. 32 N., R. 3 W., NM Prin. Mer., Colorado, bears North, 1 lk. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record; corner is in a small drain, course S. 60° W.

7.00 Leave cedar and pinon timber; continue in pine.

Chains	THE PERKINS LINE, 227TH MILE
12.00	Enter small valley, bears W.
23.64	The closing cor. of the E. 1/16 line, sec. 22, Colorado, bears Nor 6 lks. dist.; an iron post, 1 in. diam., firmly set, with brass c marked and witnessed as described in the official record.
24.00	Thence along a broken S. slope.
35.30	The Carpenter 104th Mi. Cor. bears North, 12.53 chs. dist., an ir post, firmly set in ground and mound of stone; I remove th monument and obliterate the marks on the four bearing trees.
36.20	A spring, the first water in the canon, bears South, about 1.30 ch dist.
38.50	Top of a boulder, 15 ft., N. and S., by 12 ft., E. and W.
41.90	Spring branch, in canon, 3 lks. wide, 3 ins. deep, course N. 70 W general course W.
43.50	The closing cor. of the center line, sec 22, Colorado, bears Sout 6 lks. dist.; an iron post, 1 in. diam., firmly set, with brass ca marked and witnessed as described in the official record.
45.90	Same stream.
48.20	Same stream, course N. turning to W. and NW.
52.45	The closing cor. of secs. 8 and 9, T. 32 N., R. 3 W., NM Prin. Me New Mexico, bears South, 4 lks. dist.; an iron post, 2 ins. diam firmly set, with brass cap marked and witnessed as described the official record.
55.00	Leave valley; ascend 308 ft. over NE. slope.
63.23	The closing cor. of the W. 1/16 line, sec. 22, Colorado, bears Sout 2 lks. dist.; an iron post, 1 in. diam., firmly set, with brass ca marked and witnessed as described in the official record.
78.79	Perkins' 227th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. abo ground, firmly set, with brass cap marked as described in t official record. Around the post Construct a concrete monument, in a form 8x14x36 ins., set 20 i in the ground, with tablet seated in the top marked Mile Corn No. 227, 1868-1925, and build a mound of stone around t monument;

THE PERKINS LINE, 227TH MILE

from which

A pinon, 10 ins. diam., bears N. 10° E., 38 lks. dist., mkd. as recorded.

A black jack pine, 16 ins. diam., bears S. 53¼° E., 58 lks. dist., mkd. as recorded.

A yellow pine, 22 ins. diam., bears S. 52½° W., 175 lks. dist., mkd. as recorded.

A black jack pine, 12 ins. diam., bears N. 57¼° W., 78 lks. dist., mkd. as recorded.

Land, broken mountainous.

Soil, sandy and stony clay: 3rd rate.

Timber, pine, cedar, and pinon; undergrowth, oak brush.

THE PERKINS LINE, 228TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

14.60 Altitude observation on the sun for azimuth, September 21, 1932.

18.74 N. 0.8 lks. to the parallel; thence the 228th Mi. Cor. bears S. 2.2 lks. dist.; on this determination the true line bears S. 89° 59' W.

REESTABLISHMENT

Thence from the 227th Mi. Cor. S. 89° 59' W., on a reestablishment of the 228th mile.

Ascend 2 ft. over N. slope, through timber and undergrowth.

3.90 Crest of spur, slopes N. 20° W.; descend 72 ft. over NW. slope.

5.82 The closing cor. of secs. 21 and 22, T. 32 N., R. 3 W., N.M. Prin. Mer., Colorado; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

10.00 Draw, course NW.

12.80 Draw, course N. 25° E.; ascend 68 ft. over NE. slope.

17.80 Crest of spur, slopes N. 10° W.; descend 120 ft. over SW. slope.

22.89 The closing cor. of the E. 1/16 line, sec. 21, Colorado; an iron post,

Chains THE PERKINS LINE, 228TH MILE

1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

26.90 Draw, course NW.; ascend 5 ft. over NE. slope.

28.00 Point of spur, slopes N.; descend 53 ft. over NW. slope.

31.85 Same draw, course S. 20 W.; ascend 50 ft. over SE. slope.

36.00 Crest of spur, slopes S.; descend 433 ft. over SW. slope.

36.49 The Carpenter 103rd Mi. Cor. bears North, 2.25 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the bearing tree.

42.70 The closing cor. of the center line, sec. 21, Colorado; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

51.14 The closing cor. of secs. 7 and 8, T. 32 N., R. 3 W., NM Prin. Mer., New Mexico, bears South, 16 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

62.60 Enter small valley, bears N. and S.

64.65 Spring branch, 2 lks. wide, 2 ins. deep, course N.; general course N. 10 W.

65.90 Leave valley, bears N. and S.; ascend 122 ft. over NE. slope.

71.60 Top of steep ascent; ascend slightly along steep N. slope.

78.74 Perkins' 228th Mi. Cor.: an iron post, 3 ins. diam., 12 ins. above ground firmly set, with brass cap marked and witnessed as described in the official record

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 22 ins. in the ground, with tablet seated in the top marked Mile Corner No. 228, 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 20 ins. diam., bears N. 5 E., 61 lks. dist., mkd. as recorded.

Cross on a sandstone boulder, bears S. 63½ W., 44 lks. dist. mkd. as recorded.

Land, broken mountainous.

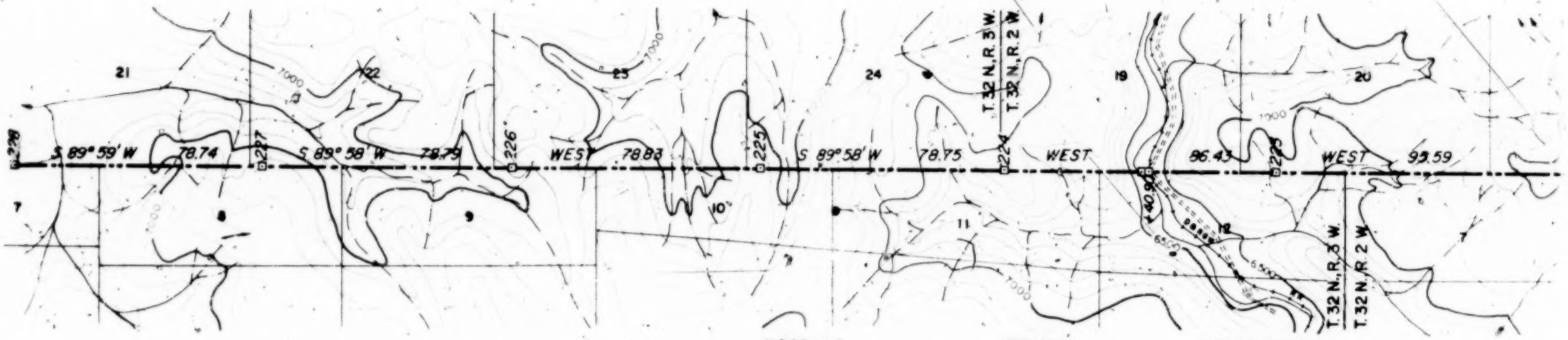
Soil, sandy and stony clay; 3rd rate.

Timber, pine, cedar, and pinon; undergrowth, oak brush.

C O L O R A D O

ARCHULETA COUNTY

SOUTHERN UTE INDIAN RESERVATION



JICARILLA INDIAN RESERVATION

RIO ARRIBA COUNTY

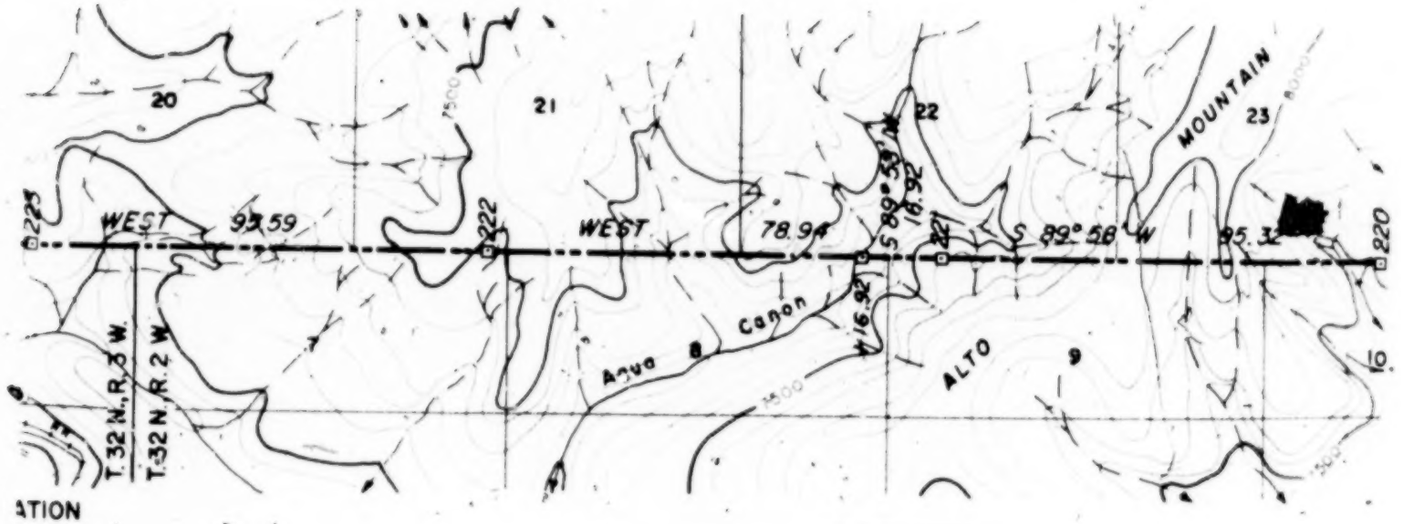
N E W M E X I C O

SCALE

0 10 20 30 40 80

40 Chains to the inch

RESERVATION



ATION

C O

COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma
Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 228

to

MILE CORNER No. 238

THE PERKINS LINE, 229TH MILE

Chains *RETRACEMENT*

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

74.81 N. 0.7 lks. to the parallel; thence the witness corner to the 229th Mi. Cor. bears S. 1.8 lks. dist.; on this determination the true line bears S. 89° 59′ W.; thence West, continuing with new measurement, on a retracement of the Perkins boundary, on a transit line describing a tangent.

4.00 The 229th Mi. Cor. was not established by Perkins.

82.71 N. 0.9 lks. to the parallel; thence the 230th Mi. Cor. bears N. 2.[illegible] lks. dist.; on this determination the true line bears N. 89° 59′ W.

REESTABLISHMENT

Thence from the 228th Mi. Cor. S. 89° 59′ W., on a reestablishment of the 229th mile.

Ascend 12 ft. over a steep N. slope, through timber and undergrowth.

2.80 Top of ascent; descend 22 ft. over NW. slope.

3.46 The closing cor. of secs. 20 and 21, T. 32 N., R. 3 W., NM Prin. Mer., Colorado; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

3.70 Small draw, course N. 30° E.; ascend 322 ft. over NE. and N. slope.

23.41 The closing cor. of the E. 1/16 line, sec. 20, Colorado, bears North 1.5 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

30.20 Top of NE. slope; thence over a broken N. slope.

34.28 The closing cor. of Tps. 32 N., Rs. 3 and 4 W., NM Prin. Mer., New Mexico, and the NW. corner of the Jicarilla Apache Indian Reservation, bears North, 1.5 lks. dist.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

38.34 The Carpenter 102nd Mi. Cor. bears North, 12.14 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove the monument and obliterate the marks on the four bearing trees.

42.00 Crest of ridge, bears N. 70° W. and S. 70° E.; thence over gently rolling land.

hains	THE PERKINS LINE, 229TH MILE
43.29	The closing cor. of the center line, sec. 20, Colorado; an iron post, 1 in. diam., firmly set; with brass cap marked and witnessed as described in the official record.
51.00	Leave gently rolling land; descend 299 ft. over SW. slope; ridge bears N. 20 W.
63.17	The closing cor. of the W. 1/16 line, sec. 20, Colorado, bears South, 1.5 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.
74.81	Perkins' witness corner to the 229th Mi. Cor.; an iron post, 3 ins. diam., 14 ins. above ground, firmly set in ground and mound of stone, with brass cap marked and witnessed as described in the official record.
	Around the post
	Construct a concrete monument, in a form 8x14x36 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner No. 228 + 74.81 Chs., 1868-1925, and build a mound of stone around the monument;
	from which
	A cedar, 10 ins. diam., bears S. 44 W., 18 lks. dist., mkd. as recorded.
	A pinon, 8 ins. diam., bears N. 1¼ W., 30 lks. dist., mkd. as recorded.
	Thence N. 89° 52' W., continuing on the reestablishment of the 229th mile.
	Descend 106 ft. over NW. slope, through timber and undergrowth.
3.81	Recorded distance; the 229th Mi. Cor. was not established by Perkins; point falls near bottom of steep small canon; impracticable to establish corner.
	Land, broken mountainous.
	Soil, sandy and stony clay; 3rd rate.
	Timber, pine, cedar, and pinon; undergrowth, oak brush.

THE PERKINS LINE, 230TH MILE

REESTABLISHMENT

Thence from the point for the 229th Mi. Cor., N. 89° 59' W., on a reestablishment of the 230th mile.

Descend 23 ft. over NW. slope, through timber and undergrowth.

Chains	THE PERKINS LINE, 230TH MILE
0.70	Draw in small canon, course S. 40° W.; ascend 39 ft. over SE. slope
4.16	The closing cor. of secs. 19 and 20, T. 32 N., R. 3 W., NM Prin. Mer., Colorado, bears North, 5 lks. dist.; an iron post, 2 ins. diam. firmly set, with brass cap marked and witnessed as described in the official record.
4.80	Crest of small spur, slopes S.; descend 27 ft. over W. slope.
8.60	Foot of descent; ascend 18 ft. over steep E. slope.
9.35	Top of ascent; descend 267 ft. over W. slope.
23.54	The Carpenter 101.2 Mi. Cor. bears North, 12.00 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the four bearing trees.
23.92	The closing cor. of the E. 1/16 line, sec. 19, Colorado, bears North 5 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.
25.85	Draw, course N. 20° W.
28.40	Foot of descent; ascend 109 ft. over NE. slope.
35.03	The closing cor. of secs. 11 and 12, T. 32 N., R. 4 W., NM Prin. Mer., New Mexico; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.
42.70	Crest of spur, slopes N.; descend 183 ft. over NW. slope.
43.94	The closing cor. of the center line, sec. 19, Colorado, bears North 3.5 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.
55.85	Draw, course N. 50° W., about 1.5 chs. to main draw.
63.73	The closing cor. of the W. 1/16 line, sec. 19, Colorado, bears South 2 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.
65.80	Foot of descent; ascend 94 ft. over NE. slope.
78.71	Perkins' 230th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.
	Around the post
	Construct a concrete monument, in a form 8x14x36 ins., set 22 ins. in the ground, with tablet seated in the top marked Mile Corner

Chains

THE PERKINS LINE, 230TH MILE

No. 230, 1868-1925, and build a mound of stone around the monument;

from which

A pinon, 8 ins. diam., bears N. 20° E., 47 lks. dist., mkd. as recorded.

A pinon, 6 ins. diam., bears S. 76° 40′ E., 97 lks. dist., mkd. as recorded.

A pinon, 6 ins. diam., bears S. 23½° W., 41 lks. dist., mkd. as recorded.

A pinon, 10 ins. diam., bears N. 10¾° W., 55 lks. dist., mkd. as recorded.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pinon, cedar, and juniper; undergrowth, oak brush.

THE PERKINS LINE, 231ST MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

1.50 Altitude observation on the sun for azimuth, September 27, 1932.

3.73 N. 0.8 lks. to the parallel; thence the 231st Mi. Cor. bears S. 6.6 lks. dist.; on this determination the true line bears S. 89° 57′ W.

REESTABLISHMENT

Thence from the 230th Mi. Cor. S. 89° 57′ W., on a reestablishment of the 231st mile.

Ascend 202 ft. over steep NE. and SE. slopes, through timber and undergrowth.

4.75 The closing cor. of Tps. 32 N., Rs. 3 and 4 W., NM Prin. Mer., Colorado, bears North, 1.5 lks. dist.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

5.65 Crest of spur ridge, bears N. 55° W. and S. 55° E.; slope changes to SE.

Chains THE PERKINS LINE, 231ST MILE

11.50 Construct a concrete monument, in a form 8x14x36 ins., set 21 ins. in the ground, with tablet seated in the top marked Mile Corner No. 230 + 11.50 Chs., 1868-1925, and build a mound of stone around the monument;

from which

A cedar, 5 ins. diam., bears S. 44½° W., 71 lks. dist., mkd. WP NM BT.

A pinon, 5 ins. diam., bears N. 33¾° W., 22 lks. dist., mkd. WP COLO BT.

Monument stands 9 lks. N. of the crest of a conical hill; descend 294 ft. over NW. slope.

16.56 The closing cor. of the W. 1/16 line, sec. 11, New Mexico, bears North, 5 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

24.79 The closing cor. of the E. 1/16 line, sec. 24, Colorado, bears North 3 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

25.40 Draw, course N. 10° E.; ascend 56 ft. over NE. slope.

29.80 Top of ascent; descend 180 ft. along a N. slope.

36.45 The closing cor. of secs. 10 and 11, T. 32 N., R. 4 W., NM Prin. Mer., New Mexico, bears North, 4 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

41.38 The Carpenter 100th Mi. Cor. bears North, 11.82 chs. dist.; an iron post, firmly set in ground and mound of earth; I remove the monument and obliterate the marks on the three remaining bearing trees.

44.86 The closing cor. of the center line, sec. 24, Colorado, bears North 2 lks. dist.; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

46.00 Construct a concrete monument, in a form 16x24x36 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner No. 230 + 46 Chs., 1868-1925, and build a mound of stone around the monument.

47.40 Foot of steep descent; enter the San Juan River valley, bears N. 55° E. and S. 55° W.; thence over gently rolling bottom land

Chains

THE PERKINS LINE, 231ST MILE

53.50 Carracas Creek, course N.

56.40 South end of a horseshoe bend in Carracas Creek.

64.95 The closing cor. of the W. 1/16 line, sec. 24, Colorado, bears North, 2 lks. dist.: an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

66.70 Wagon road, bears NW. and SE.

67.70 Top of a bank, 5 ft. high; enter low land; subject to overflow.

78.73 Perkins' 231st Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner No. 231, 1868-1925, and build a mound of stone around the monument.

Land, broken mountainous and valley.

Soil, sandy and stony clay and gumbo; 1st and 3rd rate.

Timber, cottonwood, pinon, and cedar; undergrowth, willows, oak and sage brush.

THE PERKINS LINE, 232ND MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

4.81 Altitude observation on the sun for azimuth, September 28, 1932.

8.78 N. 0.8 lks. to the parallel; thence the 232nd Mi. Cor. bears N. 2.3 lks. dist.; on this determination the true line bears N. 89° 59′ W.

REESTABLISHMENT

Thence from the 231st Mi. Cor. N. 89° 59′ W., on a reestablishment of the 232nd mile.

Descend 7 ft. over low land of river bottom, through timber and undergrowth.

Chains THE PERKINS LINE, 232ND MILE

6.24 The closing cor. of secs. 23 and 24, T. 32 N., R. 4 W., NM Prin. Mer., Colorado, bears North, 1.5 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

7.90 Left cut bank of the San Juan River, 4 ft. high, bears N. 60° E. and S. 60° W.; thence down river bed, stream about 2.50 chs. N., left bank curves S., about 4 chs. dist.

21.50 Ascend 27 ft. over river bank and bottom.

21.80 Top of left cut bank of the river, 20 ft. high, bears N. 20° W. and S. 20° E.

26.15 The closing cor. of the E. 1/16 line, sec. 23, Colorado; an iron post 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record; thence over level land.

28.40 SW. cor. of an abandoned adobe house, 30x15 ft., bears North, 2.1 chs. dist.

33.62 The SW. cor. of a graveyard, 1.20 chs. sq., bears South, 1.67 chs. dist.

34.35 The point for the Carpenter 99.103 Mi. Cor. bears North, 11.7 chs. dist.; point falls in the present bed of the San Juan River I obliterate the marks on the remaining bearing tree,

35.50 Draw, course N. 30° W.

37.84 The closing cor. of secs. 9 and 10, T. 32 N., R. 4 W., NM Prin. Mer., New Mexico, bears South, 4.5 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record; thence descend 41 ft. over bottom land.

41.35 The SE. cor. of Pedro Sandoval's house, 30x25 ft., bears South, 1 lks. dist.

42.10 Top of bank, 10 ft. high, bears N. 25° E. and S. 25° W.; enter low land; subject to overflow; enter field.

49.20 Leave field; thence over very low land.

55.60 Left cut bank of the San Juan River, bears N. 30° E. and S. 30° W. thence in river bed.

64.00 E. edge of water, course S.

Chains

THE PERKINS LINE, 232ND MILE

65.05 The right bank of the river, 8 ft. high, and W. edge of water; thence descend 4 ft. over bottom land.

78.78 Perkins' 232nd Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record; except the SW. bearing tree is gone.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 18 ins. in the ground, with tablet seated in the top marked Mile Corner No. 232, 1868-1925, and build a mound of stone around the monument;

from which

A cottonwood, 8 ins. diam., bears N. 44° W., 95 lks. dist., mkd. as recorded.

Land, gently rolling bottom.

Soil, gumbo and silt; 1st and 2nd rate.

Timber, cottonwood and willows; undergrowth, young timber, oak and sage brush.

THE PERKINS LINE, 233RD MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

0.18 Altitude observation on the sun for azimuth, September 29, 1932.

3.82 N. 0.8 lks. to the parallel; thence the 233rd Mi. Cor. bears S. 4.2 lks. dist.; on this determination the true line bears S. 89° 58′ W.

REESTABLISHMENT

Thence from the 232nd Mi. Cor. S. 89° 58′ W., on a reestablishment of the 233rd mile.

Over level bottom land, through timber and undergrowth.

7.25 The closing cor. of secs. 22 and 23, T. 32 N., R. 4 W., NM Prin. Mer., Colorado, bears North, 1 lk. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

Chains THE PERKINS LINE, 233RD MILE

11.50 Right bank of the San Juan River, 2 ft. high, bears NW. and SE descend 7 ft. into bed of river.

13.20 E. edge of water, course NW.

18.10 W. edge of water.

18.50 Left bank of river, 3 ft. high, bears N. 55° W. and S. 55° E.; ascen 169 ft. over gently rolling bottom land and a NE. slope.

27.35 The closing cor. of the E. 1/16 line, sec. 22, Colorado, bears North 3.5 lks. dist.; an iron post, 1 in. diam., firmly set, with brass ca marked and witnessed as described in the official record.

30.50 Leave the San Juan River valley, bears N. 20° W. and S. 20° E ascend a broken NE. slope, through scattering cedar and pinon

33.00 Construct a concrete monument, in a form 8x14x36 ins., set 21 in in the ground, with tablet seated in the top marked Mile Corn No. 232 + 33 Chs., 1868-1925, and build a mound of sto around the monument;
from which
The NE. cor. of Roque Gallago's house, 57x20 ft., bears S. 9¼° W., 1.15 chs. dist.

38.84 The closing cor. of secs. 8 and 9, T. 32 N., R. 4 W., NM Prin. Me New Mexico, bears North, 2.5 lks. dist.; an iron post, 2 ins. diar firmly set, with brass cap marked and witnessed as described the official record.

39.80 Draw, course N.

43.81 North, 10.94 chs. dist., left bank of the San Juan River, bea N. 70° W. and S. 70° E.; point for the Carpenter 98th Mi. Co falls in the river; the post was found lying on the bank; I remo this monument.

47.45 The closing cor. of the center line, sec. 22, Colorado, bears Nort 2 lks. dist.; an iron post, 1 in. diam., firmly set, with brass ca marked and witnessed as described in the official record.

51.30 Top of ascent; descend 64 ft. over NW. slope.

56.50 Draw, course N. 30° E.; ascend 93 ft. over NE. slope.

60.30 Crest of small spur, slopes N. 15° W.; descend 80 ft. along a broke N. slope.

hains

THE PERKINS LINE, 233RD MILE

62.80 Draw, course N.

65.00 Crest of small spur, slopes N. 15° W.

67.41 The closing cor. of the W. 1/16 line, sec. 22, Colorado: an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

73.00 Draw, course N. 20° E.; ascend 135 ft. over SE. slope.

78.82 Perkins' 233rd Mi. Cor.: an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 18 ins. in the ground to bedrock, with tablet seated in the top marked Mile Corner No. 233, 1868-1925, and build a mound of stone around the monument;

from which

A yellow pine, 12 ins. diam., bears N. 31¾° E., 131 lks. dist., mkd. as recorded.

A cedar, 10 ins. diam., bears S. 45½° E., 61 lks. dist., mkd. as recorded.

Land, level bottom and broken mountainous.

Soil, sandy and stony silt, gumbo, and clay; 1st and 3rd rate.

Timber, cottonwood, pine, cedar, and pinon; undergrowth, young timber, willows, and oak brush.

THE PERKINS LINE, 234TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

2.76 Altitude observation on the sun for azimuth, September 30, 1932.

8.80 N. 0.8 lks. to the parallel; thence the 234th Mi. Cor. bears S. 10.3 lks. dist.; on this determination the true line bears S. 89° 56' W.

REESTABLISHMENT

Thence from the 233rd Mi. Cor. S. 89° 56' W., on a reestablishment of the 234th mile.

Chains THE PERKINS LINE, 234TH MILE

Ascend 440 ft. over broken NE. slope, through timber and unde growth.

8.70 The closing cor. of secs 21 and 22, T. 32 N., R. 4 W., NM Prin Mer., Colorado, bears North, 2.5 lks. dist.; an iron post, 2 ins diam., firmly set, with brass cap marked and witnessed as de scribed in the official record.

39.88 The closing cor. of secs. 7 and 8, T. 32 N., R. 4 W., NM Prin. Mer New Mexico; an iron post, 2 ins. diam., firmly set, with brass ca marked and witnessed as described in the official record.

41.50 Crest of a small spur, slopes N. 20° W.

42.80 Draw, course N. 10° W.

44.41 The Carpenter 97th Mi. Cor. bears North, 11.51 chs. dist.; an iro post, firmly set in ground and mound of stone; I remove th monument and obliterate the marks on the four bearing trees.

48.77 The closing cor. of the center line, sec. 21, Colorado; an iron pos 1 in. diam., firmly set, with brass cap marked and witnessed a described in the official record.

53.20 Crest of spur, slopes N. 20° E.; descend 396 ft. over NW. slope.

71.20 Draw in canon, course N. 30° E.; ascend 176 ft. over NE. slope.

78.80 Perkins' 234th Mi. Cor.: an iron post, 3 ins. diam., 16 ins. abo ground, firmly set in ground and mound of stone, with brass ca marked as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 20 in in the ground, with tablet seated in the top marked Mile Corn No. 234, 1868-1925, and build a mound of stone around th monument;

from which

A juniper, 6 ins. diam., bears S. 28° E., 22 lks. dist., mkd. as r corded.

A juniper, 14 ins. diam., bears S. 32° W., 18 lks. dist., mkd. a recorded.

Cross on a sandstone boulder, bears N. 30° 10' W., 15 lks. dist mkd. as recorded.

Land, broken mountainous.

Chains

THE PERKINS LINE, 234TH MILE

Soil, sandy and stony clay; 3rd rate.
Timber, pine, cedar, and pinon; undergrowth, oak brush.

THE PERKINS LINE, 235TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

78.77 N. 0.8 lks. to the parallel; thence the 235th Mi. Cor. bears S. 1.0 lks. dist.; on this determination the true line bears West.

REESTABLISHMENT

Thence from the 234th Mi. Cor. West, on a reestablishment of the 235th mile.

Ascend 321 ft. over NE. and N. slopes, through timber and undergrowth.

10.37 The closing cor. of secs. 20 and 21, T. 32 N., R. 4 W., NM Prin. Mer., Colorado; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

10.70 Crest of spur, slopes N.; thence ascend over gentle N. slope, along top of spur.

17.70 Top of ascent; descend 187 ft. over NW. slope.

28.40 Draw, course N. 10° W.; ascend 153 ft. over NE. slope.

34.11 The Carpenter 96.15 Mi. Cor. bears North, 11.27 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the four bearing trees.

38.62 The closing cor. of Tps. 32 N., Rs. 4 and 5 W., NM Prin. Mer., New Mexico; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

48.00 Top of ascent; descend 179 ft. over N. and NW. slopes.

53.00 Slope changes to NW.

61.50 Draw, course N. 30° E.; ascend 220 ft. over NE. slope.

Chains THE PERKINS LINE, 235TH MILE

77.84 The ¼ cor. of sec. 12, T. 32 N., R. 5 W., NM Prin. Mer., New Mexico; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

78.77 Darling's 235th Mi. Cor., as reestablished by Perkins in 1917; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 20 ins. in the ground, with brass tablet seated in the top marked Mile Corner No. 235, 1868-1925, and build a mound of stone around the monument;

from which

Cross on a sandstone boulder, bears S. 43½ E., 9.5 lks. dist., mkd. as recorded.

A yellow pine, 18 ins. diam., bears S. 70° W., 33 lks. dist., mkd. as recorded.

A yellow pine, 16 ins. diam., bears N. 11° W., 143 lks. dist., mkd. as recorded.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, cedar, and pinon; undergrowth, oak and service brush.

THE PERKINS LINE, 236TH MILE

RETRACEMENT

West, on a retracement of the Perkins boundary, on a transit line describing a tangent.

4.40 Altitude observation on the sun for azimuth, October 1, 1932.

79.59 N. 0.8 lks. to the parallel; thence the 236th Mi. Cor. bears N. 25 lks. dist., altitude observation on the sun for azimuth, October 1, 1932; on this determination the true line bears N. 89° 49′ W.

REESTABLISHMENT

Thence from the 235th Mi. Cor. N. 89° 49′ W., on a reestablishment of the 236th mile.

Descend 127 ft. over gradual N. and NW. slopes, through timber and undergrowth.

Chains

THE PERKINS LINE, 236TH MILE

8.10 Slope changes to NW.

10.00 Slope changes to N.

11.46 The closing cor. of secs. 19 and 20, T. 32 N., R. 4 W., NM Prin. Mer., Colorado, bears South, 3.5 lks. dist.; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

22.50 Foot of descent; ascend 582 ft. over N., E., and SE. slopes.

29.65 Draw, course NE.; slope changes to E.

38.96 The closing cor. of secs. 11 and 12, T. 32 N., R. 5 W., NM Prin. Mer., New Mexico; an iron post, 2 ins. diam., firmly set, with brass cap marked and witnessed as described in the official record.

42.50 Slope changes to SE.

46.37 The Carpenter 95th Mi. Cor. bears North, 10.98 chs. dist.; an iron post, firmly set in ground and mound of stone; I remove this monument and obliterate the marks on the three bearing trees.

48.00 Crest of spur, slopes N. 80° E.; slope changes to gentle E.

53.90 Top of ascent; descend 19 ft. over SW. slope.

61.50 Draw, course S. 60° E.; ascend 77 ft. over general E. slope near draw.

74.70 Same draw, course N. 75° E. from W.; thence up draw.

77.50 Leave draw, course E. from S. 80° W.

79.20 The ¼ cor. of sec. 11, T. 32 N., R. 5 W., NM Prin. Mer., New Mexico; an iron post, 1 in. diam., firmly set, with brass cap marked and witnessed as described in the official record.

79.59 Perkins' 236th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record.

Around the post

Construct a concrete monument, in a form 8x14x36 ins., set 22 ins. in the ground, with tablet seated in the top marked Mile Corner No. 236, 1868-1925, and build a mound of stone around the monument; elevation of tablet, 7520 ft. above sea level.

Land, broken mountainous.

Soil, sandy and stony clay; 3rd rate.

Timber, pine, cedar, and pinon; undergrowth, oak brush.

On September 1, 1947, at the Perkins 240th Mile Corner, the surveyi of the Colorado and New Mexico boundary was resumed, continuing t retracement and reestablishment of the Perkins boundary as decreed i the United States Supreme Court. The surveying was discontinued at t close of the field season in October, 1932, due to lack of funds.

This portion of the boundary survey was executed with a W. and L. Gurley improved Solar Transit, of most modern design. The instrument w in good condition and placed in satisfactory adjustment prior to the beginni of the survey, and was tested and found free from appreciable error. Freque tests were made throughout the survey.

All azimuth determinations were made with the Solar Transit. Indepen ent solar meridians were established at each transit station.

Measurements were made with a narrow steel tape, 5 chains in leng graduated every link for the first 100 links, and thereafter at intervals of links. The tape was tested by comparison with a one chain standard steel t and found correct. Measurements were made on the slope and the verti angles determined with a clinometer in good adjustment: the field notes sh the horizontal equivalents.

THE PERKINS LINE, 237TH MILE

Chains

RETRACEMENT

Beginning at the Perkins 237th Mi. Cor., as identified and here after described, S. 89° 52′ E., on a retracement of the Perk boundary.

79.43 The 236th Mi. Cor. bears N., 1 lk. dist.; on this determination true line bears N. 89° 52′ W.

REESTABLISHMENT

Thence N. 89° 52′ W., on a reestablishment of the 237th mile.

Ascend 165 ft. over mountainous land, through dense yellow and scrub oak timber.

11.86 The closing cor. of T. 32 N., Rgs. 4 and 5 W., NM Prin. Mer., C rado; an iron post, 3 ins. diam., firmly set, marked and witne as described in the official record

39.55 The closing cor. of secs. 10 and 11, T. 32 N., R. 5 W., NM Mer., New Mexico, bears North, 7.5 lks. dist.; marked and nessed as described in the official record.

Chains

THE PERKINS LINE, 237TH MILE

Top of ascent; descend 200 ft. to point for corner.

46.85 The Carpenter 94th Mi. Cor. bears North, 10.77 chs. dist.; an iron post; I remove this monument.

79.43 The Perkins 237th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, with brass cap marked and witnessed as described in the official record; I did not disturb this monument.

THE PERKINS LINE, 238TH MILE

RETRACEMENT

Beginning at the Perkins 238th Mi. Cor., as identified and hereinafter described, S. 89° 52' E., on a retracement of the Perkins boundary.

79.44 The Perkins 237th Mi. Cor. bears S., 5 lks. dist.; on this determination the true line bears N. 89° 50' W.

REESTABLISHMENT

Thence N. 89° 50' W., on a reestablishment of the 238th mile. Ascend gradually, through dense cedar, pinon, and scrub oak.

0.11 The ¼ cor. of sec. 10, T. 32 N., R. 5 W., NM Prin. Mer., New Mexico; an iron post, 1 in. diam., marked and witnessed as described in the official record.

18.80 Top of 143 ft. ascent; begin descent.

39.84 The Carpenter 93.1 Mi. Cor. bears North, 10.28 chs. dist.; an iron post; I remove this monument.

45.75 Bottom of 150 ft. descent; small pond bears S., about 6 chs. dist.; begin ascent of 150 ft.

46.00 Set the Carpenter 93.1 Mi. Cor.; an iron pipe, 3 ins. diam., 36 ins. long, 24 ins. in the ground. Obliterate the Carpenter marks from the cap, leaving COLO on N., NM on S., in raised letters, and remark the cap with D A R below COLO on N., 237 M + 46.00 CHS. in center, 1868 on W., and 1925 on E.;

from which

A cedar, 6 ins. diam., bears S. 55½° E., 91 lks. dist., mkd. WP NM BT.

Chains THE PERKINS LINE, 238TH MILE

A yellow pine, 18 ins. diam., bears N. 17 E., 32 lks. dist., mkd WP COLO BT.

65.30 U. S. Coast and Geodetic Survey Station Arboles, bears North, 3[illegible] lks. dist., a standard U.S.C. and G.S./tablet, marked ARBOLES 1936. This is the highest point of the mesa; descend 125 ft. to corner.

65.35 Set tablet in solid rock marked Mile Corner No. 237 + 65.35 Chs. 1868-1925.

79.44 The Perkins 238th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, firmly set, with brass cap marked and witnessed as described in the official record; I did not disturb this monument.

C O L O R A D O

ARCHULETA COUNTY

SOUTHERN UTE INDIAN RESERVATION

CARSON NATIONAL FOREST

RIO ARRIBA COUNTY

N E W M E X I C O

T.32 N., R.5 W.

T.32 N., R.4 W.

N 89° 50' W 79.44

N 89° 50' W 79.43

N 89° 49' W 79.59

WEST 78.77

S 89° 56' W 78.80

S 89° 58' W 78.82

N 89

+65.35 U.S.C. & G.S. "ARBOLES"

+46.00

+33.00

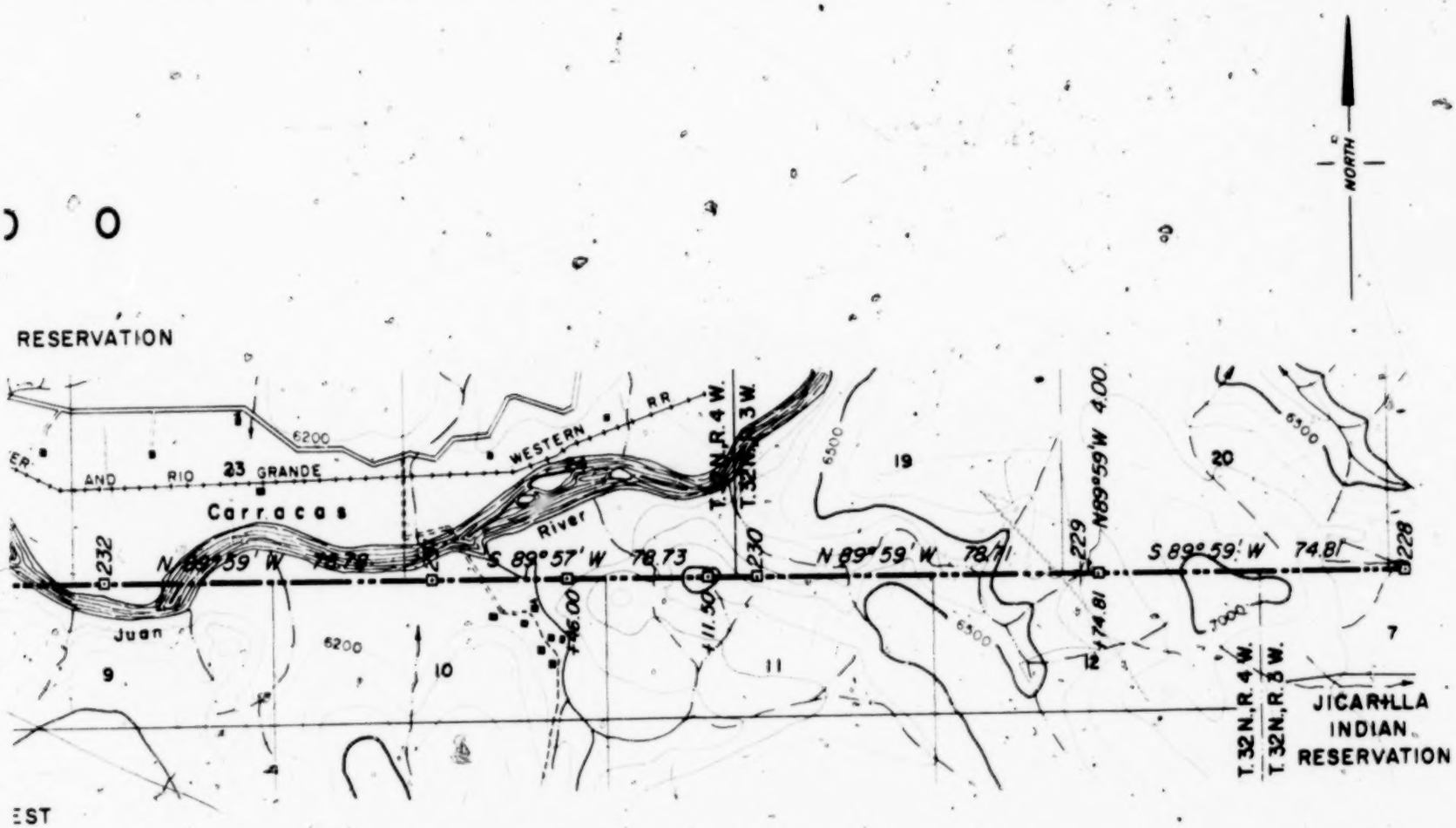
DENVER AND RIO

Juan

SCALE

0 10 20 30 40 80

40 Chains to the inch



COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D. Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma
Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 238

to

MILE CORNER No. 247

The Perkins Line, 239th Mile

Chains

RETRACEMENT

Beginning at the 240th Mi. Cor., as identified and hereinafter described,

S. 89° 52′ E., on a retracement of the Perkins boundary.

77.00 The Perkins witness corner to the 239th Mi. Cor. bears N., 1 lk. dist.; on this determination the true line bears N. 89° 52′ W.; thence S. 89° 52′ E., continuing with new measurement, on a retracement of the Perkins boundary.

2.40 Point for the 239th Mi. Cor.; not established by Perkins.

81.87 The Perkins 238th Mi. Cor. bears N., 1 lk. dist.; on this determination the true line bears N. 89° 52′ W.

REESTABLISHMENT

Thence N. 89° 52′ W., on a reestablishment of the 239th mile.

Ascend gradually through dense timber and undergrowth.

0.63 The ¼ cor. of sec. 9, T. 32 N., R. 5 W., NM Prin. Mer., New Mexico; an iron pipe, 1 in. diam., marked and witnessed as described in the official record.

12.20 W. rim of mesa, bears NE. and SW.

Abrupt descent of approximately 1000 ft. over rough broken land with dry washes draining N.

35.99 The Carpenter-92nd Mi. Cor. bears North, 9.72 chs. dist.; an iron post; I remove this monument.

Begin ascent of approximately 500 ft. to point for corner.

79.47 Point for 239th Mi. Cor.; Perkins did not establish a monument impractical to construct a monument at this point.

The Perkins Line, 240th Mile

REESTABLISHMENT

Thence from the point for the 239th Mi. Cor. N. 89° 52′ W., on a reestablishment of the Perkins 240th mile.

Descend 75 ft. over rough and broken land, through dense timber and undergrowth.

Chains

THE PERKINS LINE, 240TH MILE

2.40 The Perkins witness corner to the 239th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, with brass cap marked and witnessed as described in the official record; I did not disturb this monument.

19.52 Narrow spur, slopes N.; top of ascent; begin descent of 740 ft. over rough and broken land, through dense timber and undergrowth.

43.24 The Carpenter 91.109 Mi. Cor. bears North, 9.07 chs. dist.; an iron pipe; I remove this monument.

78.22 Bottom of descent; ascend 13 ft. to corner.

79.40 The Perkins 240th Mi. Cor.; an iron post, 3 ins. diam., 12 ins. above ground, with brass cap marked and witnessed as described in the official record; I did not disturb this monument.

THE PERKINS LINE, 241ST MILE

RETRACEMENT

N. 89° 52′ W., on a retracement of the Perkins boundary.

79.43 The 241st Mi. Cor. was not established by Perkins.

81.03 Intersect the Perkins witness corner to the 241st Mi. Cor.; on this determination the true line bears N. 89° 52′ W.

Thence N. 89° 52′ W., continuing with new measurement, on a retracement of the Perkins boundary.

21.56 Intersect Darling's Astronomical Monument No. 8; on this determination the true line bears N. 89° 52′ W.

REESTABLISHMENT

Thence from the 240th Mi. Cor. N. 89° 52′ W., on a reestablishment of the 241st mile.

Descend gradually over nearly level valley land through sage brush, along S. side of wire fence.

11.00 Wire fence turns N.

11.14 The closing cor. of secs. 20 and 21, T. 32 N., R. 5 W., NM Prin. Mer., Colorado; an iron pipe, 3 ins. diam., marked and witnessed as described in the official record.

Chains THE PERKINS LINE, 241ST MILE

18.00 Construct a concrete monument, in a form 16x24x36 ins., set 24 in. in the ground, with tablet seated in the top marked Mile Corner No. 240 + 18.00 Chs., 1868-1925.
No accessories available.

18.60 Road, from Arboles, Colorado, to Rosa, New Mexico, bears NE. and SW.

22.14 Wire fence, bears N. and S.

22.70 House, bears S., 1.95 chs. dist.

38.60 S. wall of adobe house, bears N., 15 lks. dist.

41.70 Wire fence, bears N., S., and W. along line.

47.26 North, 8.86 chs. dist.; computed position for Carpenter's 90th Mi. Cor.; made careful search and failed to find any evidence of corner; point falls in an alfalfa field.

51.40 The ¼ cor. of sec. 20, T. 32 N., R. 5 W., NM Prin. Mer., Colorado; an iron post, 1 in. diam., marked and witnessed as described in the official record.

67.00 Irrigation ditch, course S.

70.60 The W. 1/16 cor. of sec. 20, T. 32 N., R. 5 W., NM Prin. Mer., Colorado; an iron post, 1 in. diam., marked and described as in the official record.

73.60 End of E. and W. fence along line.

73.90 Top left bank of San Juan River, 10 ft. high, bears N. 20° E. and S. 20° W.

74.30 Edge of water of San Juan River, course S. 20° W.

77.43 Top right bank of San Juan River; begin ascent of 115 ft.

79.43 Point for the 241st Mi. Cor.: Perkins did not establish a monument as it is impractical to construct a monument at this point.

THE PERKINS LINE, 242ND MILE

REESTABLISHMENT

Thence from the point for the 241st Mi. Cor. N. 89° 52′ W., on a reestablishment of the 242nd mile.

Chains THE PERKINS LINE, 242ND MILE

Ascend over rolling mesa, through scattering cedar timber and sage brush undergrowth.

1.60 The Perkins witness corner to the 241st Mi. Cor.: an iron pipe, 3 ins. diam., 12 ins. above ground, marked and witnessed as described in the official record; I did not disturb this monument

Descend 35 ft. to ravine.

1.90 Ravine, course SW.: ascend 35 ft. to top.

3.40 W. edge of ravine; thence over rolling mesa.

8.00 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 241 + 8.00 Chs., 1868-1925; elevation of tablet is 6109.845 ft. above sea level.

12.40 The closing cor. of secs. 19 and 20, T. 32 N., R. 5 W., NM Prin. Mer., Colorado, bears North, 1.5 lks. dist., an iron post, 2 ins. diam., marked and witnessed as described in the official record.

13.90 W. edge of mesa; begin descent.

14.50 Ravine, course NW.

16.70 Same ravine, course SW.

21.56 Darling's Astronomical Monument No. 8: a granite stone, 10x11x18 ins. above ground, top leaning to south, marks illegible.

Reset the original stone, in a large mound of stone and concrete, with tablet seated in the top marked Mile Corner No. 241 + 21.56 Chs., 1868-1925.

In October, 1932, the field work for the season, under the direction of Arthur D. Kidder, Boundary Commissioner, of retracing and reestablishing the boundary between Colorado and New Mexico was concluded at Perkins' 236th Mile Corner. Due to lack of funds, the field work was not resumed until 1947, at which time the retracing and reestablishing of the Perkins boundary was completed.

The United States Supreme Court in its Decree, dated April 13, 1925 (268 U. S. 108), directed that the line surveyed and marked in 1917, by Wm. C. Perkins, U. S. Surveyor, as a restoration of the Darling boundary between the 203rd Mile Corner and Astronomical Monument No. 8, "Shall

be taken and deemed to be the true location of the portion of the Darling line thus restored."

West of the Darling Astronomical Monument No. 8, as reconstructed in 1947 by Arthur D. Kidder, the Darling line as surveyed and marked in 1868 was to be restored as the boundary between Colorado and New Mexico.

COLORADO AND NEW MEXICO BOUNDARY

The Darling Line, 242nd Mile

Chains

RETRACEMENT

From Darling's Astronomical Monument No. 8, as reconstructed N. 89° 52′ W., on a retracement of the Darling boundary.

58.42 The 242nd Mi. Cor. has become obliterated.

Thence West, continuing with new measurement, on a retracement of the Darling boundary.

80.00 The 243rd Mi. Cor. has become obliterated.

160.00 The 244th Mi. Cor. has become obliterated.

240.00 The 245th Mi. Cor. has become obliterated.

320.00 The 246th Mi. Cor. has become obliterated.

401.15 The 247th Mi. Cor. bears S., 1.076 chs. dist.; on this determination the true line bears S. 89° 52′ W.

REESTABLISHMENT

Thence from Darling's Astronomical Monument No. 8, as reconstructed, S. 89° 52′ W., on a reestablishment of the 242nd mile.

Descend 12 ft. over rolling land, through scattering cedar timber and sage brush undergrowth.

0.90 Road, bears N. and S.

3.30 Stream, 5 lks. wide, 10 ft. high, cut bank on E., course SE.; begin ascent.

6.20 Hillside wash, 10 lks. wide.

8.37 Road, on dugway, bears NE. and SW.

9.40 Top of 87 ft. ascent; thence over mesa.

10.30 The E. 1/16 cor. of sec. 19, T. 32 N., R. 5 W., NM Prin. Mer. Colorado, bears North, 5.5 lks. dist.; an iron post, 1 in. diam.

Chains

THE DARLING LINE, 242ND MILE

22 ins. above ground, marked and witnessed as described in the official record.

19.00 Ravine, course SE.

20.00 Road, bears NW. around head of draw.

21.50 Irrigation ditch, bears S., 4 lks. dist.

26.25 The Carpenter 89th Mi. Cor. bears North, 8.78 chs. dist.; an iron post; I remove this monument.

31.24 Top of 95 ft. ascent on mesa top; thence over nearly level land to point for corner.

Leave cedar timber; enter sage brush.

58.46 The proportional point: Darling's 242nd Mi. Cor. has become obliterated.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 242, 1868-1925.

No accessories available.

Monument stands in sage brush, 60 lks. N. of an E. and W. road, 84 lks. N. of an E. and W. wire fence.

THE DARLING LINE, 243RD MILE

REESTABLISHMENT

S. 89° 52′ W., on a reestablishment of the 243rd mile.

4.65 South, 43 lks. dist.; road from S. turning to W.

11.90 Same road, bears N.

12.18 South, 37 lks. dist.; a granite stone, 12x6x4 ins. above ground, mkd. with 6 grooves on 3 faces and 3 grooves on remaining face, at fence corner; fence bears N. and W. from corner.

23.55 W. rim of mesa, bears N. and S.; begin descent.

26.65 Bottom of 60 ft. descent; thence over rolling valley land.

47.81 North, 8.76 chs. dist.; after careful search failed to find any evidence of the Carpenter 88th Mi. Cor.; point falls in old cultivated field.

65.10 South, 25 lks. dist.; a sandstone, 16x2x10 ins. above ground, mkd. with 6 grooves on S., CC on N. face.

Chains

THE DARLING LINE, 243RD MILE

72.95 Creek, 30 lks. wide, 16 ins. deep, course S.; bottom of descent 80 ft. over valley floor; ascend to point for corner.

79.95 Small overflow from drainage ditch.

80.22 The proportional point; Darling's 243rd Mi. Cor. has become obliterated.

Set the Carpenter 89th Mi. Cor.; an iron pipe, 3 ins. diam., 36 in. long, 24 ins. in the ground. Obliterate the Carpenter marks from the cap, leaving COLO on N., NM on S., in raised letters, and remark the cap D A R below COLO on N., 243 M in center, 18[illegible] on W., and 1925 on E.

No accessories available.

THE DARLING LINE, 244TH MILE

REESTABLISHMENT

S. 89° 52' W., on a reestablishment of the 244th mile.

7.50 Top of low ridge.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 243 + 7.50 Chs., 1868-1925;

from which

NE. corner of house, bears S. 30° W., 2.40 chs. dist.

Monument stands 33 lks. N. of an E. and W. wire fence; beg. descent.

11.97 South, 3 lks. dist.; a sandstone, 10x3x8 ins. above ground, firmly set, mkd. with 1 groove on E., and 6 grooves on W. face.

Monument stands in a cornfield.

13.85 Farm road, bears NW. and SE.

35.50 Creek, 10 lks. wide, banks 2 ft. high, course S.; cluster of cotton wood trees bears N., about 4 chs. dist.; bottom of 50 ft. descent, ascend 30 ft. to top.

42.75 Road, bears NE. turning to W. along line.

47.59 The Carpenter 87th Mi. Cor. bears North, 8.72 chs. dist.: an iron pipe: I remove this monument.

chains

The Darling Line, 244th Mile

53.35 Road fork; roads bear W. and NE.
Top of ascent; descend 55 ft. to point for corner.

65.35 Road, bears N. and S., intersect E. and W. road N., 7 lks. dist.

80.22 The proportional point; Darling's 244th Mi. Cor. has become obliterated.
Construct a concrete monument, in a form 8x14x36 ins., set 30 ins. in the ground, with tablet seated in the top marked Mile Corner No. 244, 1868-1925.
No accessories available.
Darling's bearings to reference points at this station checked satisfactorily.

The Darling Line, 245th Mile

REESTABLISHMENT

S. 89° 52' W., on a reestablishment of the 245th mile.
Ascend 100 ft. over cultivated valley land.

23.60 Irrigation ditch, 6 lks. wide, course S.

35.00 Ditch, bears NE. and SW.

41.40 Draw, 20 lks. wide, course S.

46.51 North, 8.75 chs. dist.; after careful search failed to find any evidence of the Carpenter 86th Mi. Cor.

49.90 Lone cottonwood, bears N., 62 lks. dist.

80.22 The proportional point; Darling's 245th Mi. Cor. destroyed. (Carpenter 86th Mi.).
Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 245, 1868-1925.
No accessories available.
Monument stands in pasture, 30 lks. N. of E. and W. wire fence.

The Darling Line, 246th Mile

REESTABLISHMENT

S. 89° 52' W., on a reestablishment of the 246th mile.
Ascend gradually over cultivated rolling valley land.

Chains THE DARLING LINE, 246TH MILE

5.20 Ditch, 4 lks. wide, course S. from NW.

11.10 Wire fence, bears N. and S.

11.54 Road, bears N., S. turning to W., 17 lks. dist.

12.10 Construct a concrete monument, in a form 18x24x36 ins., set 24 in. in the ground, with tablet seated in the top marked Mile Corner No. 245 + 12.10 Chs., 1868-1925;

from which

A cedar, 14 ins. diam., bears S. 31¼° E., 19 lks. dist., mkd. W NM BT.

A pinon, 12 ins. diam., bears N. 55½° W., 15 lks. dist., mkd. W COLO BT.

NW. cor. of a house, bears S. 43° E., approximately 130 lks. dist.

Monument stands 18 lks. N. of an E. and W. wire fence, and 17 lks. W. of a N. and S. wire fence.

21.00 Ditch, 3 lks. wide, course NE.

45.58 The Carpenter 85th Mi. Cor. bears North, 8.60 chs. dist.; an iron post; I remove this monument.

62.60 Creek, 15 lks. wide, course N. 60° E.

72.60 Creek, 5 lks. wide, course N. 60° E.; in dense stand of willows.

80.22 The proportional point; Darling's 246th Mi. Cor. destroyed (Carpenter 85th Mi.).

Set the Carpenter 85th Mi. Cor.; an iron pipe, 3 ins. diam., 36 ins. long, 24 ins. in the ground. Obliterate the Carpenter marks from the cap, leaving COLO on N., NM on S., in raised letters, and remark the cap with D A R below COLO, 246 M in center, 18[illegible] on W., and 1925 on E.;

from which

A cedar, 12 ins. diam., bears N. 76½° W., 79 lks. dist., mkd. COLO 246 M BT.

Monument stands in sage brush, 29 lks. N. of an E. and W. wire fence.

THE DARLING LINE, 247TH MILE

REESTABLISHMENT

S. 89° 52' W., on a reestablishment of the 247th mile.

Ascend over gently rolling valley land, through scattering cedar timber and sage brush undergrowth; some cultivation.

35.10 Ditch, 5 lks. wide, course SE.

38.75 House, bears N., approximately 1 ch. dist.

45.00 Construct a concrete monument, in a form 18x24x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 246 + 45.00 Chs., 1868-1925;

from which

A cedar, 10 ins. diam., bears N. 38½° W., 72 lks. dist., mkd. WP COLO BT.

A cedar, 14 ins. diam., bears S. 45¼° W., 118 lks. dist., mkd. WP NM BT.

Monument stands 8 lks. N. of E. and W. wire fence.

46.30 Base of mesa, bears N. and S.; top of 50 ft. ascent over valley floor; ascend 250 ft. to top of mesa.

47.74 The Carpenter 84th Mi. Cor. bears North, 8.93 chs. dist.; an iron post; I remove this monument and obliterate the marks on the remaining bearing tree.

53.00 Top rim of mesa, bears N. and S.; ascend 10 ft. over mesa top.

60.22 Darling's 247th Mi. Cor., as restored by Everett H. Kimmell, U. S. Surveyor; a concrete monument, 15x15x5 ins. above ground, with General Land Office tablet seated in the top marked U. S. C. & G. S., MP 247, COLO on N., N. Mex., 1934, 1931 on S. side of triangle in center;

from which

R. M. bears N. 41° 24' E., 1.938 chs. dist., mkd. R. M. No. 1, U. S. C. & G. S., arrow pointing to the Mi. Cor. monument.

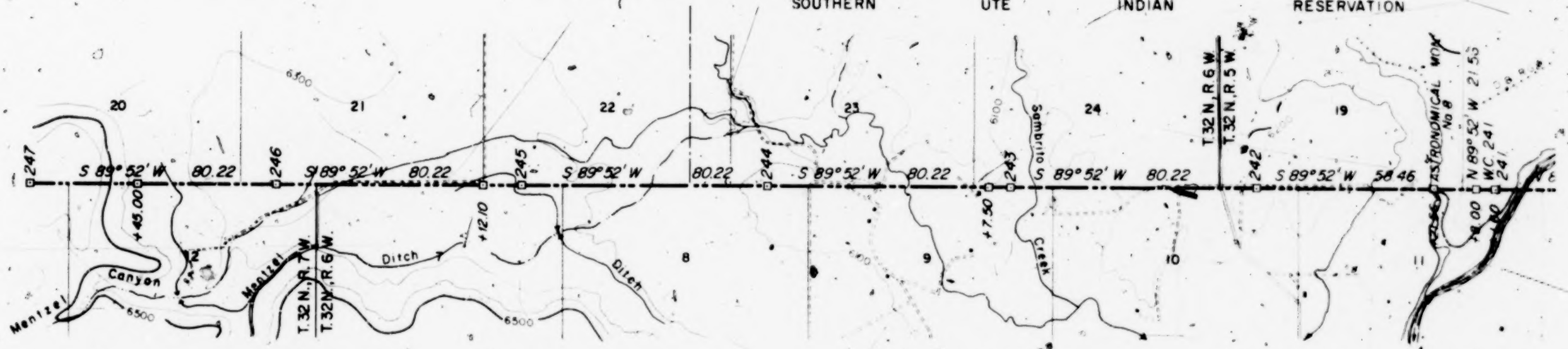
R. M. bears N. 48° 45' W., 1.08 chs. dist., mkd. R. M. No. 2, U. S. C. & G. S., arrow pointing to the Mi. Cor. monument.

I did not disturb these monuments.

COLORADO

LA PLATA COUNTY

SOUTHERN UTE INDIAN RESERVATION



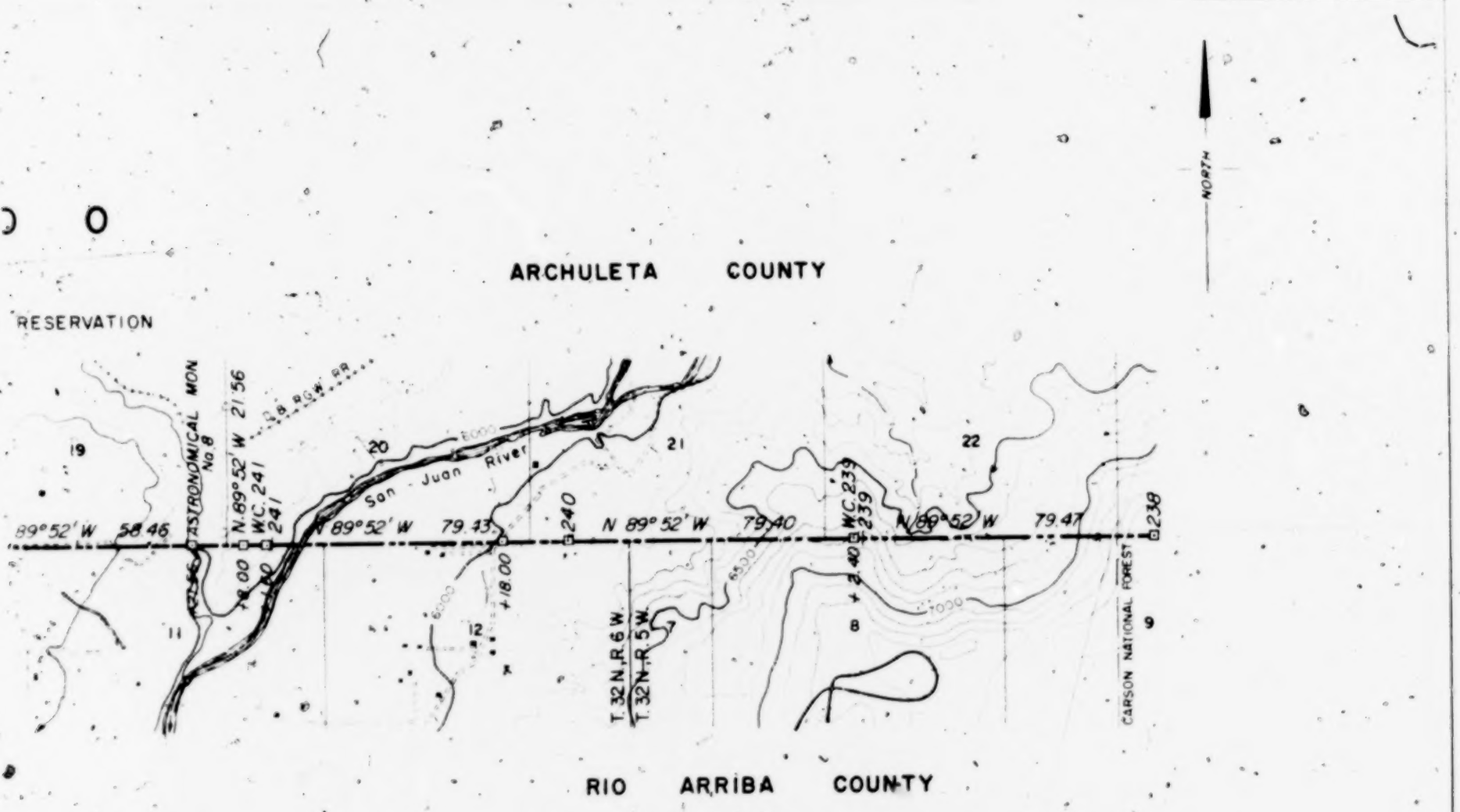
SAN JUAN COUNTY

NEW MEXICO

SCALE

10 20 30 40 80

40 Chains to the inch



COLORADO AND NEW MEXICO BOUNDARY

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Joseph B. Thoma
Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 247

to

MILE CORNER No. 253

THE DARLING LINE, 248TH MILE

Chains

RETRACEMENT

S. 89° 52′ W., on a retracement of the Darling boundary.

80.00 The 248th Mi. Cor. has become obliterated.

160.00 The 249th Mi. Cor. has become obliterated.

240.00 The 250th Mi. Cor. has become obliterated.

320.00 The 251st Mi. Cor. has become obliterated.

397.40 The 252nd Mi. Cor. bears N., 46 lks. dist.; on this determinati the true line bears S. 89° 56′ W.

REESTABLISHMENT

Thence from the 247th Mi. Cor. S. 89° 56′ W., on a reestablishmen of the 248th mile.

Over nearly level mesa through dense cedar and pinon timber, sag and buck brush undergrowth.

3.00 W. rim of mesa, bears NE. and SE.

6.70 Ravine, course NE.; bottom of 60 ft. descent; begin 60 ft. ascent

11.90 Top of mesa, bears N. and SE.

12.24 The closing cor. of secs. 19 and 20, T. 32 N., R. 6 W., NM Prin Mer., Colorado, bears South, 7 lks. dist.; a sandstone, 12x4x1 ins., in mound of stone, mkd. with 5 grooves on E., 1 groove on W., and CC on N. face.

14.20 Top of sandstone ledge, bears NE. and SW.

Set tablet in solid rock marked Mile Corner No. 247 + 14.20 Chs 1868-1925;

from which

A cedar, 8 ins. diam., bears N. 78° E., 83 lks. dist., mkd. WP COLO BT.

A pinon, 14 ins. diam., bears S. 3½° W., 80 lks. dist., mkd. WP NM BT.

Build a mound of stone E. of tablet.

Begin descent of 190 ft.

17.40 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins in the ground, with tablet seated in the top marked Mile Corner

hains

THE DARLING LINE, 248TH MILE

No. 247 + 17.40 Chs., 1868-1925;
from which

A cedar, 20 ins. diam., bears N. 56¾° E., 16 lks. dist., mkd. WP COLO BT.

A cedar, 14 ins. diam., bears S. 47¼° E., 13 lks. dist., mkd. WP NM BT.

17.75 Road, in dugway, bears N. and S.
Bottom of steep descent, bears NE. and SW.; leave timber, enter sage brush; descend gradually.

27.40 Arroyo, 30 ft. deep, course NE.

30.80 Same arroyo, 15 ft. deep, course SE. from W.

35.50 Same arroyo, 15 ft. deep, course NE. turning to E.
Ascend 150 ft. over steep rocky slope, through cedar and pinon timber.

44.40 Edge of sandstone rim rock on top of mesa, bears NE. and SW.; ascend 25 ft. gradually over mesa top.

44.75 Set tablet in sandstone ledge, marked Mile Corner No. 247 + 44.75 Chs., 1868-1925;
from which

Twin cedar, 8 ins. diam., bears N. 14¾° E., 53 lks. dist., mkd. WP COLO BT.

A pinon, 12 ins. diam., bears S. 67¾° W., 78 lks. dist., mkd. WP NM BT.

Bufld a mound of stone W. of tablet.

0.96 North, 8.75 chs. dist.; point for the Carpenter 83rd Mi. Cor.: position located from recorded position of the four bearing trees; after careful search, unable to find the post; obliterated the marks on the four bearing trees.

2.46 Dry wash, 15 lks. wide, course S. 60° E.

1.90 Same dry wash, 15 lks. wide, course N. 80° E.

0.50 Leave dense timber, bears NW. and SE.; enter sage brush undergrowth.
Same dry wash; course S. 80° E.

3.50 Wire fence, bears NE. and SW.; NE., 10 lks. dist. to fence corner.
Leave sage brush; enter cultivated land.

Chains

THE DARLING LINE, 248TH MILE

79.48 The proportional point. Darling's 248th Mi. Cor. has become o
erated.

Construct a concrete monument, in a form 6x14x36 ins., set 24
in the ground, with tablet seated in the top marked Mile Co
No. 248. 1868-1925, and build a mound of stone around
monument.

No accessories available.

THE DARLING LINE, 249TH MILE

REESTABLISHMENT

S. 89° 56' W., on a reestablishment of the 249th mile.

Ascend gradually over cultivated land.

6.50 Leave cultivated land; enter scattering cedar and pinon tim
ascend 60 ft. to foot of rocky slope.

29.10 Foot of rocky slope, bears NW. and SE.; ascend 160 ft. over ro
slope.

39.30 Top of ledge on top of ridge, bears N. and S.; thence over ne
level ridge through timber.

39.50 Set tablet in solid ledge, marked Mile Corner No. 248 + 39.50 C
1868-1925;

from which

A cedar, 8 ins. diam., bears N. 27½° W., 36 lks. dist., mkd
COLO BT.

A cedar, 6 ins. diam., bears S. 51° W., 44 lks. dist., mkd. WP
BT.

Build a mound of stone W. of tablet.

48.45 The Carpenter 82nd Mi. Cor. bears North, 8.74 chs. dist.; an
post; I remove this monument and obliterate the marks on
remaining bearing trees.

51.00 W. edge of ridge; begin abrupt descent of 180 ft.

59.50 Wash, 10 lks. wide in bottom of canon, course SW.; ascend 12
over broken land to point for corner.

79.48 The proportional point; Darling's 249th Mi. Cor. has become ob
erated.

The Darling Line, 249th Mile

Set the Carpenter 82nd Mi. Cor., an iron pipe, 3 ins. diam., 36 ins. long, 24 ins. in the ground. Obliterate the Carpenter marks from the cap, leaving COLO on N., NM on S., in raised letters; remark the cap D A R below COLO on N., 249 M in center, 1868 on W 1925 on E.,

from which

Cross, in a large boulder, bears N. 74¼ E., 27.6 lks. dist., mkd BO +.

A cross, in large boulder, bears South, 1 lk. dist.

The 249th Mi. Cor. stands against the N. face of this boulder.

The Darling Line, 250th Mile

REESTABLISHMENT

S. 89° 56' W., on a reestablishment of the 250th mile.

6.60 Perpendicular bluff, bears NE. and SW.

In top of ledge

Set tablet in solid rock, marked Mile Corner No. 249 + 6.60 Chs. 1868-1925;

from which

A pinon, 10 ins. diam., bears N. 27½ W., 34 lks. dist., mkd. W P COLO BT.

A cedar, 14 ins. diam., bears S. 44¾ W., 45 lks. dist., mkd. W P NM BT.

14.80 Top of ridge, bears NE. and SW.

Set tablet in solid ledge, marked Mile Corner No. 249 + 14.80 Chs. 1868-1925.

Build a mound of stone E. of monument.

Top of 110 ft. ascent; begin descent.

22.25 Top of perpendicular ledge, 20 lks. N. of the most westerly point of a high mesa.

Descend 280 ft. over face of ledge.

26.65 Road, bears N. and S.

27.00 Begin abrupt descent.

28.59 The Carpenter 81st Mi. Cor. bears North, 8.86 chs. dist., an iron post; I remove this monument and obliterate the marks on the four bearing trees.

Chains

THE DARLING LINE, 250TH MILE

51.35 Road, bears NE. and SW.

57.25 Bottom of abrupt 300 ft. descent, descend gradually; leave dec. timber, bears NW. and SE.; enter sage brush undergrowth.

74.45 Road, bears NW. and SE.

77.85 Draw, 10 lks. wide, course N. 60 W.; leave sage brush unde growth; enter cultivated land.

79.48 The proportional point; Darling's 250th Mi. Cor. has become obl erated.

Set the Carpenter 81st Mi. Cor.; an iron pipe, 3 ins. diam., 36 i long, 24 ins. in the ground. Obliterate the Carpenter marks fro the cap, leaving COLO on N., NM on S., in raised letters, rema the cap D A R below COLO on N., 250 M in center, 1868 on W 1925 on E.

Monument stands 30 lks. S. of deep arroyo and 2 lks. N. of E. a W. wire fence.

THE DARLING LINE, 251ST MILE

REESTABLISHMENT

S. 89° 56' W., on a reestablishment of the 251st mile.

Descend over cleared valley land.

9.00 Construct a concrete monument, in a form 8x14x36 ins., set 24 i in the ground, with tablet seated in the top marked Mile Cor No. 250 + 9.00 Chs., 1868-1925.

No accessories available.

Monument stands on top of low rise in cleared land, 5 lks. N. of fence line.

13.40 NE. cor. of adobe house, bears S., 65 lks. dist.

22.10 Wash, 20 lks. wide, course N.

26.30 Wire fence, bears S.; leave cleared land, enter scattering small ced and pinon.

40.20 Point of spur.

45.70 Road, bears N. and S.

48.93 The Carpenter 80th Mi. Cor. bears North, 8.93 chs. dist.; an post; I remove this monument.

Chains

THE DARLING LINE, 251ST MILE

.50 Wash, 40 lks. wide, course S.

2.20 Fence cor., bears N., 4 lks. dist.; fences W. and S.

6.10 Brow of mesa, overlook Pine River Valley to the W. and SW. of a Mexican cemetery.

Construct a concrete monument, in a form 16x24x36 ins., 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 250 + 56.10 Chs., 1868-1925; elevation of tablet is 6212.82 ft. above sea level.

Bottom of 65 ft. descent over mesa, abrupt descent of 65 ft. to road.

8.70 Road, bears N. and S., at foot of bluff.

3.00 Left bank of Pine River, 4 ft. deep, 50 lks. wide, course S.

8.00 Top of perpendicular ledge on W. side of Pine River, 80 ft. above left bank.

.50 Top of bluff on W. side of Pine River.

7.48 The proportional point; Darling's 251st Mi. Cor. has become obliterated.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 251, 1868-1925.

Monument stands on top of bluff on W. side of Pine River, in cultivated land.

THE DARLING LINE, 252ND MILE

REESTABLISHMENT

S. 89° 56' W., on a reestablishment of the 252nd mile.

Ascend gradually over cultivated land.

.00 Wire fence, bears N. and S.; enter cedar and pinon timber.

.80 Irrigation ditch, course S.

.00 Road, bears N. and S.

.40 Rocky spur, slopes S.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 251 + 17.40 Chs., 1868-1925;

Chains THE DARLING LINE, 252ND MILE

from which

A forked cedar, 6 ins. diam., bears N. 13¾° E., 89 lks. dist., mkd. WP COLO BT.

A cedar, 8 ins. diam., bears S. 53° E., 62 lks. dist., mkd. WP NM BT.

22.50 Wash, course S. 60° E.

43.00 Enter dense scrub oak and buck brush, bears E. and NW.

51.69 The Carpenter 79th Mi. Cor. bears North, 9.12 chs. dist.; an iron post; I remove this monument and obliterate the marks on the bearing trees.

71.58 The closing cor. of T. 32 N., Rs. 7 and 8 W., NM Prin. Mer., New Mexico, bears South, 5 lks. dist.; a sandstone, 14x6x16 ins. above ground, firmly set in small mound of stone, marked and witnessed as described in the official record.

79.48 Darling's 252nd Mi. Cor.; a sandstone, 12x5x24 ins., lying down with base in mound of stone, mkd. C., NM., 68, 252 M on opposite faces. Found sandstone, 8x6x3 ins., mkd. 252 M deposited in mound of stone.

In place of stone

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 252, 1868-1925, and build a mound of stone around the monument. Placed deposit stone in bottom, and surface stone on top of mound.

No other accessories available.

THE DARLING LINE, 253RD MILE

RETRACEMENT

West, on a retracement of the Darling boundary.

79.92 The 253rd Mi. Cor. bears S. 26 lks. dist.; on this determination the true line bears S. 89° 49′ W.

REESTABLISHMENT

Thence from the 252nd Mi. Cor. S. 89° 49′ W., on a reestablishment of the 253rd mile.

THE DARLING LINE, 253RD MILE

Ascend 300 ft. through cedar and pinon timber, and dense oak and service brush.

2.31 A pinon, 18 ins. diam., blazed, on line.

2.73 The Carpenter 78th Mi. Cor. bears North, 8.80 chs. dist.; an iron post; I remove this monument and obliterate the marks on the two bearing trees.

3.00 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 252 + 69.00 Chs., 1868-1925;

from which

A cedar, 12 ins. diam., bears N. 13½° E., 15 lks. dist., mkd. WP COLO BT.

A pinon, 8 ins. diam., bears S. 22° E., 35 lks. dist., mkd. WP NM BT.

3.18 Road from La Boca, Colorado, to Blanco, New Mexico, bears NE. and S.

3.92 Darling's 253rd Mi. Cor.: a granite stone, 16x12x8 ins. above ground, firmly set, mkd. 253 M on E. face.

In place of stone

Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 253, 1868-1925, and build a mound of stone around the monument;

from which

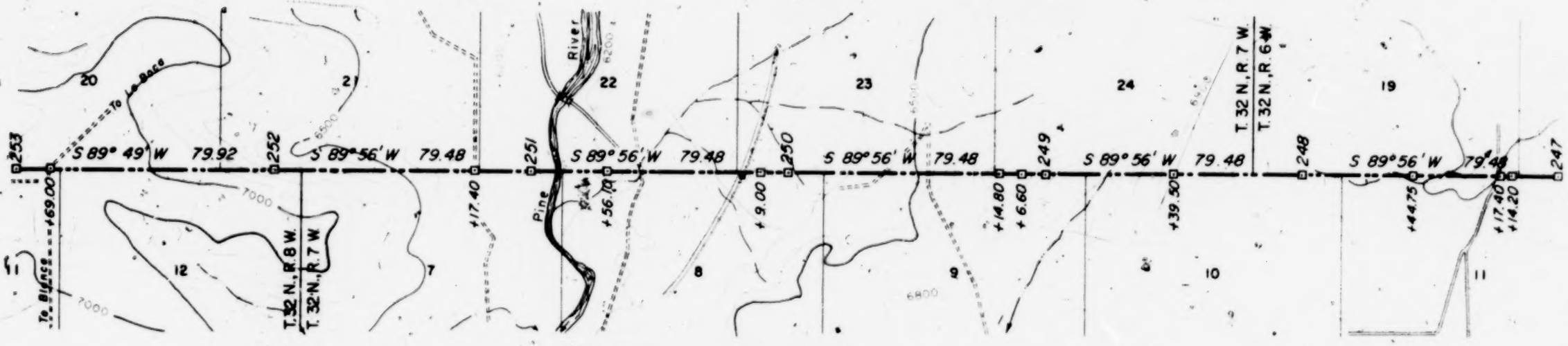
A cedar, 22 ins. diam., bears N. 9° E., 51 lks. dist., mkd. COLO 253 M BT.

A cedar, 18 ins. diam., bears S. 51½° W., 1.02 chs. dist., mkd. NM 253 M BT.

COLORADO

LA PLATA COUNTY

SOUTHERN UTE INDIAN RESERVATION



SAN JUAN COUNTY

NEW MEXICO

SCALE

0 10 20 30 40 80

40 Chains to the inch

COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph A. Thoma

Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 253

to

MILE CORNER No. 261

THE DARLING LINE, 254TH MILE

Chains

RETRACEMENT

West, on a retracement of the Darling boundary.

80.00 Unable to find the Darling 254th Mi. Cor.

160.00 Unable to find the Darling 255th Mi. Cor.

240.00 The 256th Mi. Cor. has become obliterated.

320.00 The 257th Mi. Cor. has become obliterated.

400.00 The 258th Mi. Cor. has become obliterated.

480.00 The 259th Mi. Cor. has become obliterated.

560.00 Unable to find the Darling 260th Mi. Cor.

639.52 The restored 261st Mi. Cor. bears N., 54 lks. dist.: on this determination the true line bears N. 89° 57′ W.

REESTABLISHMENT

Thence from the 253rd Mi. Cor. N. 89° 57′ W., on a reestablishment of the 254th mile.

Ascend 55 ft. over N. slope through cedar and pinon timber, and dense oak and service brush.

20.75 Top of ascent: descend 100 ft.

49.35 Sandstone ledge, bears N. and S.: begin abrupt descent of 190 ft. to ravine.

50.23 The Carpenter 77.125 Mi. Cor. bears North, 8.28 chs. dist.: an iron post: I remove this monument and obliterate the marks on the four bearing trees.

58.92 Ravine, course N. 30° W., draining to La Boca Canon.

60.11 Bottom of descent: ascend 45 ft.

70.34 Descend 18 ft. to point for corner.

79.94 The proportional point: unable to identify Darling's 254th Mi. Cor.

Set a red brass tube, 3.5 ins. diam.: 36 ins. long, 24 ins. in the ground in a concrete base, with cap marked Mile Corner No. 254 + 1868-1925, and build a mound of stone around the monument;

from which

A cedar, 14 ins. diam., bears S. 66° E., 28 lks. dist., mkd. NM 254 M BT.

Chains

THE DARLING LINE, 254TH MILE

A cedar, 10 ins. diam., bears N. 77¼° W., 11 lks. dist., mkd. COLO 254 M BT.

THE DARLING LINE, 255TH MILE

REESTABLISHMENT

N. 89° 57′ W., on a reestablishment of the 255th mile.

Ascend 46 ft. through cedar and pinon timber, and oak and service brush.

16.64 Drift fence, bears N. and S.

22.74 W. edge of road, bears NW. and SE.

42.30 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground; with tablet seated in the top marked Mile Corner No. 254 + 42.30 Chs., 1868-1925, and build a mound of stone around the monument;

from which

A pinon, 10 ins. diam., bears S. 16¼° W., 17 lks. dist., mkd. WP NM BT.

A cedar, 6 ins. diam., bears N. 51° W., 17 lks. dist., mkd. WP COLO BT.

Monument stands at W. edge of road, bearing NE. and SW.: begin ascent.

47.31 Top of ascent, bears N. and S.: begin 81 ft. descent.

60.66 The Carpenter 76th Mi. Cor. bears North, 7.91 chs. dist., an iron post; I remove this monument and obliterate the marks on the four bearing trees.

66.35 Sandstone ledge, bears N. and S.

Set a tablet in sandstone ledge, marked Mile Corner No. 254 + 66.35 Chs., 1868-1925;

from which

A cedar, 8 ins. diam., bears S. 7° W., 30 lks. dist., mkd. WP NM BT.

A pinon, 7 ins. diam., bears N. 36½° W., 24 lks. dist., mkd. WP COLO BT.

Raised a mound of stone E. of tablet.

Chains

THE DARLING LINE, 255TH MILE

78.90 Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground in a concrete base, with cap marked Mile Corner No. 25 + 78.90 Chs., 1868-1925, and build a mound of stone around the monument;
from which
An ant hill, bears East, 37 lks. dist.

79.70 Wash, course S. 60° W.

79.94 The proportional point; unable to identify Darling's 255th Mi. Cor. point falls in deep arroyo; I did not reestablish this corner.

THE DARLING LINE, 256TH MILE

REESTABLISHMENT

N. 89° 57′ W., on a reestablishment of the 256th mile.
Over rolling land in narrow valley; descend 17 ft.

14.43 Bottom of descent; ascend 38 ft.

24.00 Top of ascent; descend 80 ft. to creek.

47.75 Fence, bears N. and S.

61.53 The Carpenter 75th Mi. Cor. bears North, 7.67 chs. dist.; an iron post; I remove this monument and obliterate the marks on the two bearing trees.

77.66 Center of dry creek, cut banks, 8 ft. high, course SW.

79.28 Ascend 10 ft. to point for corner.

79.94 The proportional point; Darling's 256th Mi. Cor. destroyed (Carpenter 75th Mi.).
Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground in a concrete base, with cap marked Mile Corner No. 25 1868-1925, and build a mound of stone around the monument.
An old cabin, bears S. 48½° E., approximately 7 chs. dist.

THE DARLING LINE, 257TH MILE

REESTABLISHMENT

N. 89° 57′ W., on a reestablishment of the 257th mile.
Ascend 17 ft. over rolling ground on N. side of narrow valley

Chains

THE DARLING LINE, 257TH MILE

through scattering cedar and pinon timber, patches of dense cedar and pinon.

52.03 Begin 64 ft. descent to ravine.

57.47 The Carpenter 74th Mi. Cor. bears North, 7.51 chs. dist.; an iron post; I remove this monument and obliterate the marks on the three bearing trees.

64.72 Dry ravine, 10 lks. wide, course SW.; ascend 37 ft.

78.01 Top of ascent; descend 13 ft. to point for corner.

79.94 The proportional point; Darling's 257th Mi. Cor. destroyed (Carpenter 74th Mi.).

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 12 ins. in the ground to solid rock in a concrete base, with cap marked Mile Corner No. 257, 1868-1925, and build a mound of stone around the monument;

from which

A pinon, 8 ins. diam., bears N. 86 E., 51 lks. dist., mkd. COLO 257 M BT.

A cedar, 10 ins. diam., bears S. 68½ E., 87 lks. dist., mkd. NM 257 M BT.

THE DARLING LINE, 258TH MILE

REESTABLISHMENT

N. 89 57 W., on a reestablishment of the 258th mile.

Descend 199 ft. through dense cedar and pinon timber, and scrub oak.

6.70 Sandstone ledge, 10 ft. high, bears S.; thence descend into Trail Canon.

10.49 Dry bed of Trail Canon Creek, 35 lks. wide, course S.; ascend 313 ft. to top of ridge.

11.84 Road, bears N. and S.

12.00 Set a red brass tube, 3.5 ins. diam., 36 ins. long, in the ground in a concrete base, with cap marked Mile Corner No. 257 + 12.00 Chs., 1868-1925;

Chains THE DARLING LINE, 258TH MILE

from which

A red cedar, 8 ins. diam., bears S. 50° E., 63 lks. dist., mkd. W NM BT.

A red cedar, 14 ins. diam., bears N. 12½° W., 80 lks. dist., mk WP COLO BT.

16.49 Sandstone rim; on W. side of wash, course S.

45.25 Top of ridge, bears NW. and SE.; thence over ridge.

46.90 Begin 180 ft. descent on heavily timbered slope.

56.89 The Carpenter 73rd Mi. Cor. bears North, 7.28 chs. dist.; an i post; I remove this monument and obliterate the marks on t two bearing trees.

65.84 Small wash, course S.

79.94 The proportional point; Darling's 258th Mi. Cor. destroyed (C penter 73rd Mi.).

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 12 ins. in t ground with base drilled 6 ins. into sandstone, with cap mark Mile Corner No. 258, 1868-1925, and build a large mound stone around the monument;

from which

A cedar, 10 ins. diam., bears N. 47° E., 15 lks. dist., mkd. COL 258 M BT.

A cedar, 16 ins. diam., bears S. 42½° W., 77 lks. dist., mkd. N 258 M BT.

THE DARLING LINE, 259TH MILE

REESTABLISHMENT

N. 89° 57′ W., on a reestablishment of the 259th mile.

Descend 14 ft. through cedar and pinon timber, and scrub oak.

1.19 Sandstone rim, 8 ft. high, bears NE. and SW.; descend 100 ft. canon.

3.10 Dry creek bed, in Beef Canon, course S. 30° E.; ascend 222 ft.

7.55 Sandstone rim; ascend over NE. slope, through scattering cedar a pinon, dense oak, service and sage brush undergrowth.

38.25 Begin 53 ft. descent to creek.

ains

THE DARLING LINE, 259TH MILE

48.85 Dry creek, 20 lks. wide, with 4 ft. cut banks, sandy bottom, course NE.

Ascend 179 ft.

56.88 The Carpenter 72nd Mi. Cor. bears North, 7.08 chs. dist.; an iron post; I remove this monument and obliterate the marks on the four bearing trees.

77.45 Top of ascent; descend 17 ft. to point for corner.

79.94 The proportional point; Darling's 259th Mi. Cor. destroyed (Carpenter 72nd Mi.).

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 20 ins. in the ground to solid rock, with cap marked Mile Corner No. 259. 1868-1925, and build a large mound of stone around the monument;

from which

A cedar, 12 ins. diam., bears N. 34½ E., 4 lks. dist., mkd. COLO 259 M BT.

A cedar, 10 ins. diam., bears S. 34 W., 15 lks. dist., mkd. NM 259 M BT.

THE DARLING LINE, 260TH MILE

REESTABLISHMENT

N. 89° 57′ W., on a reestablishment of the 260th mile.

Ascend 160 ft. gradually over rolling ground, through dense cedar and pinon timber, and sage brush undergrowth.

56.46 The Carpenter 71st Mi. Cor. bears North, 6.92 chs. dist.; an iron post; I remove this monument and obliterate the marks on the remaining bearing tree.

79.94 The proportional point; unable to identify Darling's 260th Mi. Cor.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 260, 1868-1925, and build a mound of stone around the monument;

from which

A cedar, 20 ins. diam., bears S. 15¼ E., 25 lks. dist., mkd. NM 260 M BT.

Chains

THE DARLING LINE, 260TH MILE

A cedar, 14 ins. diam., bears N. 41° E., 38 lks. dist., mkd. COL
260 M BT.

THE DARLING LINE, 261ST MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 261st mile.

Ascend 185 ft. through dense cedar and pinon timber, and scatteri
scrub oak.

17.50 Set a red brass tube, 3.5 ins. diam., 36 ins. long, 20 ins. in t
ground, with cap marked Mile Corner No. 260 + 17.50 Ch
1868-1925, and build a mound of stone around the monument

from which

A cedar, 24 ins. diam., bears S. 67¾° E., 26 lks. dist., mkd. W
NM BT.

A cedar, 8 ins. diam., bears N. 21½° W., 8 lks. dist., mkd. W
COLO BT.

Monument stands at the summit of a high ridge; begin descent
243 ft.

42.45 The Carpenter 70.175 Mi. Cor. bears North, 6.77 chs. dist.; an i
post; I remove this monument and obliterate the marks on t
four bearing trees.

79.94 Darling's 261st Mi. Cor., as restored by Albert B. Rich, in 19
an iron post, 3 ins. diam., firmly set, with cap marked and w
nessed as described in the official record.

Find a few surface stones, pieces of old decayed original post:
deposit stone found.

From Rich's monument

A pinon, 12 ins. diam., bears N. 68° 30' W., 54 lks. dist., mar
covered.

A pinon, 10 ins. diam., bears S. 38° 00' W., 21 lks. dist., mk
NM, other marks covered.

This point is accepted by me as the best available evidence of t
position of Darling's 261st Mi. Cor.

At point for corner

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in t

ground, with cap marked Mile Corner No. 261. 1868-1925, and build a collar of stone around the monument:

from which

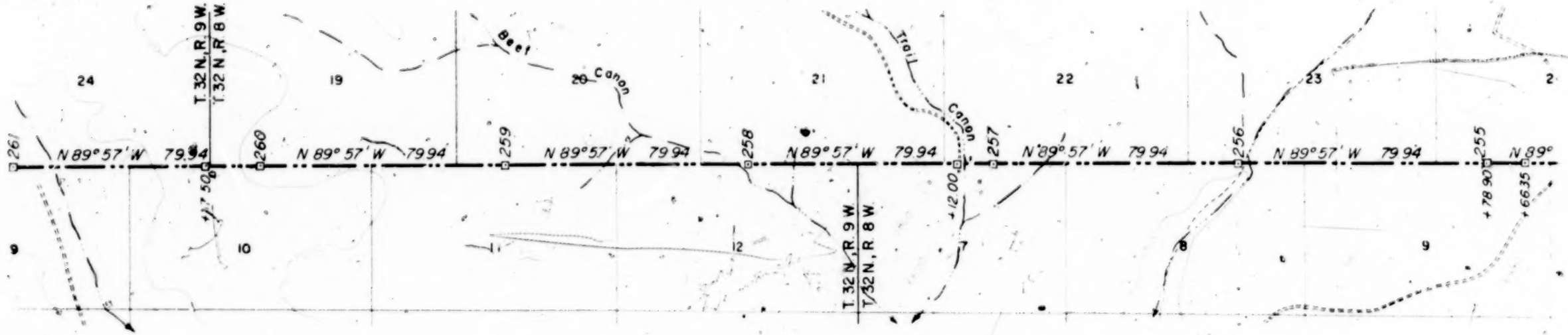
A pinon, 8 ins. diam., bears N. 36¼ E., 16 lks. dist., mkd. COLO 261 M BT.

A cedar, 8 ins. diam., bears S. 7 E., 38 lks. dist., mkd. NM 261 M BT.

C O L O R A D O

LA PLATA COUNTY

SOUTHERN UTE INDIAN RESERVATION



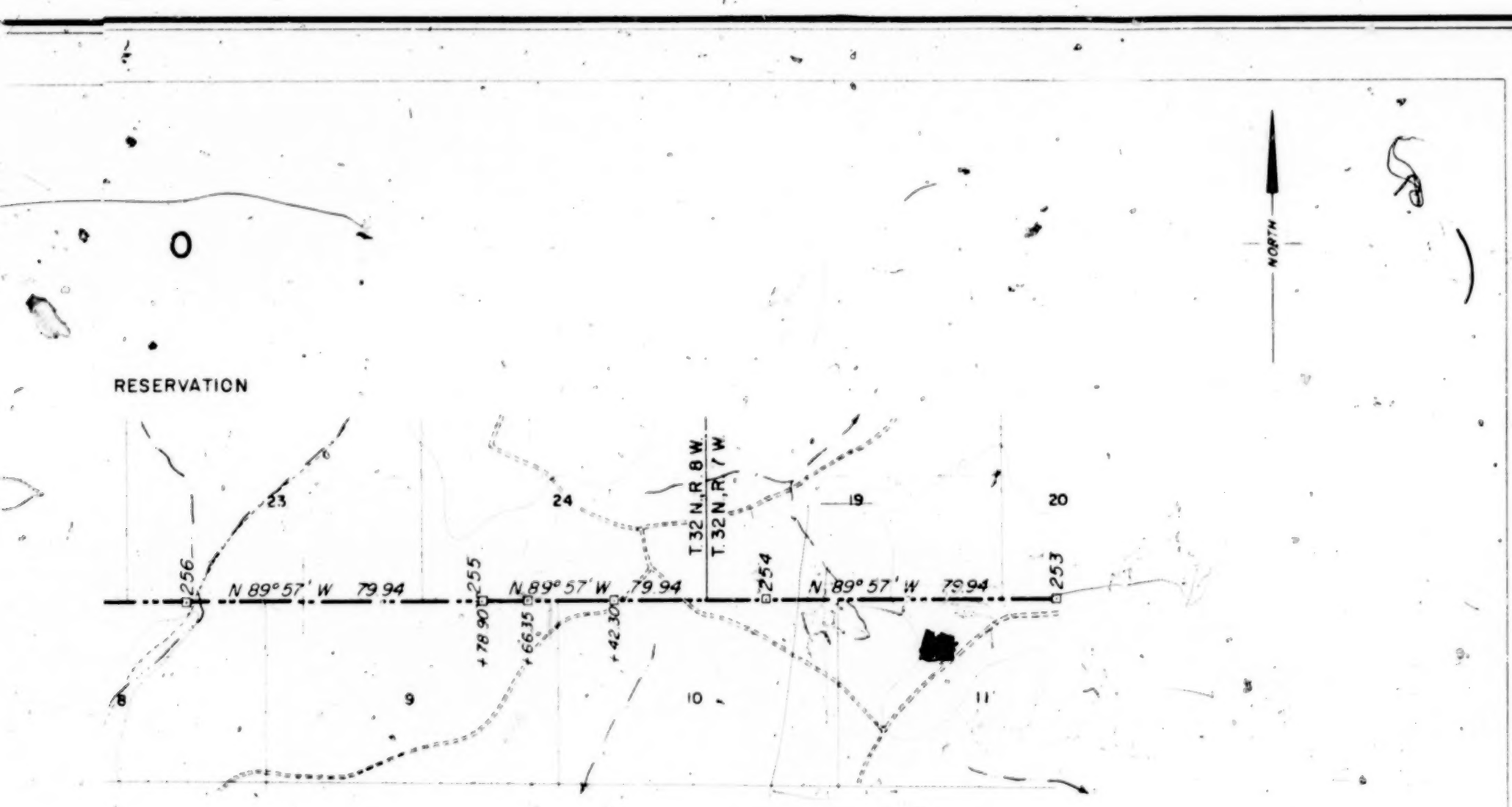
SAN JUAN COUNTY

N E W M E X I C O

SCALE

0 10 20 30 40 80

40 Chains to the inch



C O

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COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma

Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 261

to

MILE CORNER No. 269

THE DARLING LINE, 262ND MILE

Chains	
	RETRACEMENT
	S. 89° 44′ W., on a retracement of the Darling boundary.
80.68	The 262nd Mi. Cor., as restored by Rich, bears N. 23 lks. dist.; Darling monument has become obliterated.
	Thence from the restored 262nd Mi. Cor. S. 89° 54′ W., on a retracement of the Darling boundary.
80.36	The 263rd Mi. Cor., as restored by Rich, bears S. 30 lks. dist.; Darling monument has become obliterated.
	Thence from the restored 263rd Mi. Cor. S. 89° 44′ W., on a retracement of the Darling boundary.
80.76	The 264th Mi. Cor., as restored by Rich, bears S. 9.6 lks. dist.; Darling monument has become obliterated.
	Thence from the restored 264th Mi. Cor. S. 89° 44′ W., on a retracement of the Darling boundary.
80.87	The 265th Mi. Cor., as established by Rich, bears S. 5 lks. dist.; 265th Mi. Cor. was not established by Darling.
	Thence from Rich's 265th Mi. Cor. S. 89° 44′ W., on a retracement of the Darling boundary.
68.03	Darling's Astronomical Monument No. 9 bears S. 6 lks. dist.; this determination the true line bears S. 89° 44′ W.
	Thence from Darling's Astronomical Monument No. 9, West, on retracement of the Darling boundary.
13.14	The 266th Mi. Cor. has become obliterated.
92.29	The 267th Mi. Cor. bears S. 10.6 lks. dist.; on this determination the true line bears S. 89° 56′ W.
	REESTABLISHMENT
	Thence from the 261st Mi. Cor. S. 89° 44′ W., on a reestablishment of the 262nd mile.
	Ascend 78 ft. gradually through heavy cedar and pinon timber, scattering scrub oak.
16.95	Top of ridge, bears N. and S., descend 85 ft.
37.98	Begin abrupt descent of 30 ft. to ravine.
39.82	Ravine, 5 ft. deep, 6 ft. wide, course NW.; ascend 28 ft.
47.70	Top of ascent; descend 165 ft. to gulch.

(cont.)

THE DARLING LINE, 262ND MILE

0.05 Sandstone ledge, bears NW. and SE.

5.45 The Carpenter 69.025 Mi. Cor. bears North, 6.83 chs. dist., an iron post; I remove this monument and obliterate the marks on the two bearing trees.

6.60 Begin abrupt descent of 45 ft. into gulch.

7.96 Gulch, 6 ft. cut banks, 3 ft. wide, course S. 30° W.; ascend 91 ft. to point for corner.

8.61 The proportional point; unable to identify Darling's 262nd Mi. Cor. Set a red brass tube, 3.5 ins. diam., 36 ins. long, 12 ins. in sandstone, with cap marked Mile Corner No. 262, 1868-1925, and build a mound of stone around the monument;

from which

A pinon, 8 ins. diam., bears N. 20° W., 54 lks. dist., mkd. COLO 262 M BT.

A cedar, 12 ins. diam., bears S. 38½° E., 31 lks. dist., mkd. NM 262 M BT. (Both trees were marked by Rich, no other trees suitable.)

THE DARLING LINE, 263RD MILE

REESTABLISHMENT

S. 89° 44' W., on a reestablishment of the 263rd mile.

Descend 82 ft. on broken S. slope, through dense cedar and pinon timber.

0.07 A monument established by Albert B. Rich for the 262nd Mi. Cor. bears North, 24 lks. dist.; an iron post, 3 ins. diam.; set in mound of stone, marked and witnessed as described in the official record.

15.36 The closing cor. of secs. 22 and 23, T. 32 N., R. 9 W., NM Prin. Mer., Colorado, bears North, 25 lks. dist.; an iron pipe, 3 ins. diam., 10 ins. above ground, marked and witnessed as described in the official record.

15.66 Dry creek, 8 ft. wide, course S.; ascend 118 ft.

16.43 Top of ascent; descend 32 ft. to ravine.

16.82 Sandstone ledge; marked ledge with a cross (+) on line.

Chains

THE DARLING LINE, 263RD MILE

54.96 The ¼ cor. of sec. 22, T. 32 N., R. 9 W., NM Prin. Mer., Colorad bears North, 14 lks. dist.; an iron pipe, 1 in. diam., 5 ins. abo ground, marked and witnessed as described in the official reco

55.37 Ravine, 6 ft. wide, 6 ft. cut banks, course S. 30° E.; ascend 82 to point for corner.

56.59 North, 8.39 chs.; search W., 10.50 chs. and E., 10.00 chs.; unable to find the Carpenter 68th Mi. Cor.

80.43 A monument established by Albert B. Rich for the 263rd Mi. Co bears North, 18 lks. dist.; an iron post, 3 ins. diam., set in mou of stone, marked and witnessed as described in the official reco

80.61 The proportional point; 263rd Mi. Cor. destroyed (Carpenter 68 Mi.).

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in th ground, with cap marked Mile Corner No. 263, 1868-1925, an build a mound of stone around the monument;

from which

A cedar, 12 ins. diam., bears S. 68½° E., 40 lks. dist., mkd. N 263 M BT.

A pinon, 7 ins. diam., bears N. 61¼° W., 12 lks. dist., mkd. CO 263 M BT.

THE DARLING LINE, 264TH MILE

REESTABLISHMENT

S. 89° 44' W., on a reestablishment of the 264th mile.

Ascend 100 ft. over rough E. slope, through dense cedar and pin timber.

10.46 Ridge, bears N. 30° E. and S. 30° W.

14.40 The closing cor. of secs. 21 and 22, T. 32 N., R. 9 W., NM Prin. Mer., Colorado, bears North, 18 lks. dist.; an iron post, 2 ins. diam., set in mound of stone, marked and witnessed as described in the official record.

16.20 Top of spur from higher ridge, slopes N.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 18 ins. in the ground to solid rock, with cap marked Mile Corner No. 26

THE DARLING LINE, 264TH MILE

16.20 Chs., 1868-1925, and build a mound of stone around the monument;

from which

A cedar, 14 ins. diam., bears S. 47½ W., 17 lks. dist., mkd. WP NM BT.

A cedar, 8 ins. diam., bears N. 26 W., 53 lks. dist., mkd. WP COLO BT.

Descend 256 ft. to point for corner.

12.08 Sandstone ledge, bears SW. and NE.

14.63 Wash, 6 ft. deep, 5 ft. cut banks, course SW.

14.63 The ¼ cor. of sec. 21, T. 32 N., R. 9 W., NM Prin. Mer., Colorado, bears North, 9 lks. dist.; an iron post, 1 in. diam., set in mound of stone, marked and witnessed as described in the official record.

14.82 The Carpenter 67th Mi. Cor. bears North, 7.43 chs. dist.; an iron post; I remove this monument and obliterate the marks on the bearing trees.

15.50 A monument established by Albert B. Rich for the 264th Mi. Cor. bears North, 9 lks. dist.; an iron post, 3 ins. diam., set in mound of stone, marked and witnessed as described in the official record.

15.61 The proportional point; unable to identify Darling's 264th Mi. Cor. Set a red brass tube, 3.5 ins. diam., 36 ins. long, 18 ins. in the ground to solid rock, with cap marked Mile Corner No. 264, 1868-1925, and build a mound of stone around the monument;

from which

A pinon, 12 ins. diam., bears North, 59 lks. dist., mkd. COLO 264 M BT.

A pinon, 8 ins. diam., bears S. 74¾ W., 29 lks. dist., mkd. NM 264 M BT.

Monument stands in a trail bearing N. and S.

THE DARLING LINE, 265TH MILE

REESTABLISHMENT

S. 89° 44' W., on a reestablishment of the 265th mile.

Descend 203 ft. on broken N. slope, through dense cedar and pinon timber, service and scrub oak undergrowth.

Chains	THE DARLING LINE, 265TH MILE
14.07	The closing cor. of secs. 20 and 21, T. 32 N., R. 9 W., NM Prin. Mer. Colorado, bears North, 9 lks. dist.; an iron post, 2 in. diam., 8 ins. above ground, marked and witnessed as described in the official record.
21.88	E. rim of canon, a sandstone ledge, 20 ft. high, bears N. and S.
24.35	Bottom of canon, course N.; ascend 94 ft. to W. rim.
27.32	W. rim of canon, bears N. 30° E. and S.; ascend 68 ft. to top of ledge.
30.32	Top of sandstone ledge, bears N. 30° E. and S.; ascend 5 ft. to spur.
32.36	Spur, slopes N.; descend 193 ft.
33.88	Sandstone ledge, bears NNE. and SW.
44.49	The Carpenter 66.125 Mi. Cor. bears North, 7.26 chs. dist.; an iron post; I remove this monument and obliterate the marks on the bearing trees.
50.97	Bottom of descent; ascend 44 ft.
54.14	The ¼ cor. of sec. 20, T. 32 N., R. 9 W., NM Prin. Mer., Colorado, bears South, 4 lks. dist.; an iron post, 1 in. diam., 8 ins. above ground, marked and witnessed as described in the official record.
55.75	Small gulch, course N.
62.75	Sandstone ledge, 30 ft. high, bears N. and S. Set tablet in sandstone ledge, marked Mile Corner No. 264 – 62.75 Chs., 1868-1925; from which A pinon, 8 ins. diam., bears N. 85½° E., 35 lks. dist., mkd. WP COLO BT. A pinon, 10 ins. diam., bears S. 4° W., 63 lks. dist., mkd. WP NM BT. Raise a mound of stone E. of tablet. Begin 153 ft. descent to ravine over NW. slope.
68.00	Bottom of ravine, course N. 30° W.; ascend 9 ft.
69.26	Top of ascent; descend 40 ft. to rim of canon.
79.78	E. rim of Line Canon, bears NE. and SW.
86.10	Sandstone ledge, bears NE. and SW.

THE DARLING LINE, 265TH MILE

.61 The proportional point: the 265th Mi. Cor. was not established by Darling; point falls on steep, broken NW. slope; I did not establish this corner.

THE DARLING LINE, 266TH MILE

REESTABLISHMENT

Thence from the point for the 265th Mi. Cor. S. 89° 44' W., on a reestablishment of the 266th mile.

Descend abruptly 269 ft. over NW. slope, through dense cedar and pinon timber, descending 269 ft. to point on SE. slope.

.23 Sandstone ledge, bears NE. and SW.

Set tablet in ledge, marked Mile Corner No. 265 + 0.23 Chs., 1868-1925;

from which

A pinon, 12 ins. diam., bears N. 47° E., 7 lks. dist., mkd. WP 265 M COLO BT.

Raise a mound of stone S. of monument.

.24 A monument established by Albert B. Rich for the 265th Mi. Cor. bears North, 5 lks. dist.; an iron post, 3 ins. diam., 6 ins. above ground, marked and witnessed as described in the official record.

.25 Bottom of Line Canon, course SW.; ascend abruptly over broken SE. slope.

.51 The closing cor. of secs. 19 and 20, T. 32 N., R. 9 W., NM Prin. Mer., Colorado, bears North, 4 lks. dist.; an iron post, set in mound of stone, marked and witnessed as described in the official record.

Ascend 168 ft. over S. slope with large boulders.

.47 Steep W. slope of Las Animas Canon.

Set a tablet in sandstone boulder, 3½x6x10 ft., marked Mile Corner No. 265 + 37.47 Chs., 1868-1925, and build a mound of stone S. of monument.

Descend 168 ft. to right bank of Las Animas River.

.07 Sandstone ledge.

.10 Right bank of Las Animas River; ascend 53 ft. to point for Astronomical Monument No. 9.

Chains	THE DARLING LINE, 266TH MILE
53.79	Denver and Rio Grande Railroad on a fill; thence through de willows.
	REESTABLISHMENT
56.36	Leave bottom land; enter small orchard.
61.40	Irrigation ditch, bears S. 30° E. and N. 30° E.
63.13	U. S. Highway No. 550, from Durango, Colorado, to Farmingt New Mexico; bears N. and S.
64.90	Construct a concrete monument, in a form 16x24x36 ins., set 24 i in the ground, with tablet seated in the top marked Mile Cor No. 265 + 64.90 Chs., 1868-1925; elevation on top of monume 5973.63 ft.
67.69	The Carpenter Astronomical Monument No. 2 bears North, 7 chs. dist.; I remove this monument.
68.25	North, 3 lks. dist.; an iron pipe, 3 ins. diam., marked and witnes as described in the official record.
68.27	Darling's Astronomical Monument No. 9; a sandstone bould irregular shape, approximately 2x2½ ft. in cross-section, 4' long, marks obliterated. Mr. Arthur D. Kidder personally iden fied this boulder, in 1902, at which time the marks were legible.
	Set original Darling boulder, 2 ft. in the ground in a large concre base, with tablet in the top marked Mile Corner No. 265 + 68. Chs., 1868-1925.
	Thence from Darling's Astronomical Monument No. 9, as rec structed, Mile Corner No. 265 + 68.27 Chs., S. 89° 56' W., co tinuing with new distance, on a reestablishment of the 266th mi
	Ascend 143 ft. on steep, stony E. slope, through cedar and pino timber.
5.70	Top of steep ascent.
13.11	The proportional point; Darling's 266th Mi. Cor. destroyed (Ca penter 65th Mi.).
	Construct a concrete monument, in a form 8x14x36 ins., set 26 in in the ground, with tablet seated in the top marked Mile Corn No. 266, 1868-1925;

THE DARLING LINE, 266TH MILE

from which

A cedar, 8 ins. diam., bears N. 43¼ E., 67 lks. dist., mkd. COLO 266 M BT.

A cedar, 6 ins. diam., bears S. 2¼ E., 21 lks. dist., mkd. NM 266 M BT.

THE DARLING LINE, 267TH MILE

REESTABLISHMENT

S. 89° 56' W., on a reestablishment of the 267th mile.

Ascend 44 ft. gradually through cedar and pinon timber.

.03 Albert B. Rich's 266th Mi. Cor. bears North, 2 lks. dist.; an iron pipe, 3 ins. diam., 12 ins. above ground, marked and witnessed as described in the official record, except that the NE. bearing tree is down, the SE. bearing tree is dead.

.16 The closing cor. of T. 32 N., Rs. 9 and 10 W., NM Prin. Mer., Colorado, bears North, 4.2 lks. dist.; an iron pipe, 3 ins. diam., 12 ins. above ground, firmly set, marked and witnessed as described in the official record.

A sandstone, 8x8x8 ins. above ground, mkd. with 6 grooves on E., W., and N. faces, beside pipe.

.70 Ascend 680 ft. over steep rocky slope, through scrub pinon and cedar.

.30 Leave timber; enter large sandstone boulder field on slope, bears N. and S.

1.00 Sandstone ledge, bears N. and S.

.40 Sandstone ledge, bears N. and S.

.16 The Carpenter 64th Mi. Cor. bears North, 10.62 chs. dist.; an iron post; I remove this monument and obliterate the marks on the remaining bearing tree.

.00 Flat top ridge, bears N. and S.; covered with cedar and pinon timber.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 26 ins. in the ground, with cap marked Mile Corner No. 266 + 61.00 Chs., 1868-1925, and build a large mound of stone around the monument;

Chains THE DARLING LINE, 267TH MILE

from which

A cedar, 8 ins. diam., bears S. 68° E., 31 lks. dist., mkd. WP NM BT.

A cedar, 8 ins. diam., bears N. 0½° W., 49 lks. dist., mkd. WP COLO BT.

62.65 Begin descent of 215 ft. from flat top ridge.

77.40 Arroyo, course N.; bottom of descent; ascend to point for corner.

79.18 Darling's 267th Mi. Cor.: a sandstone, 8x5x10 ins. above ground, firmly set in mound of stone, mkd. C on N., NM on S., 267 M on E., and 68 on W. face.

In place of stone

Set red brass tubing, 3.5 ins. diam., 36 ins. long, 26 ins. in the ground, with cap marked Mile Corner No. 267, 1868-1925;

from which

A pinon, 10 ins. diam., bears S. 67° W., 17 lks. dist., mkd. NM 267 M BT.

A cedar, 10 ins. diam., bears N. 2° W., 41 lks. dist., mkd. COLO 267 M BT.

THE DARLING LINE, 268TH MILE

RETRACEMENT

West, on a retracement of the Darling boundary.

80.00 The 268th Mi. Cor. has become obliterated.

163.50 The 269th Mi. Cor. bears S. 13.5 lks. dist.; on this determination the true line bears S. 89° 57' W.

REESTABLISHMENT

Thence from the 267th Mi. Cor. S. 89° 57' W., on a reestablishment of the 268th mile.

Ascend gradually over rolling country, through pinon and cedar timber.

6.20 Top of 20 ft. ascent; begin descent of 45 ft.

12.45 Bottom of descent; ascend 30 ft.

17.63 Top of ascent; descend 74 ft.

THE DARLING LINE, 268TH MILE

.08 Sandstone ledge, bears N. and S.

.26 Wash, course N.

.11 Ravine, 10 lks. wide, course N.

.14 Sandstone bench, nearly level.

.18 Top of rim rock, bears N. and S.

.20 Edge of rim rock; descend 250 ft. over sandstone ledges and boulders, through cedar and pinon timber.

.23 The calculated position for the Carpenter 63rd Mi. Cor. bears North, 9.92 chs. dist.; make careful search, fail to find the monument or any of its accessories.

.72 Beginning of sandstone boulders on steeper descent.

.00 Bottom of descent; ascend 10 ft. to point for corner.

.75 The proportional point; unable to identify Darling's 268th Mi. Cor. Set a red brass tube, 3.5 ins. diam., 36 ins. long, 6 ins. in the ground, to a cross chiseled in solid rock, with cap marked Mile Corner No. 268, 1868-1925, and build a mound of stone, 8 ft. base, 3 ft. high, around the monument;

from which

A cedar, 10 ins. diam., bears S. 54° E., 31 lks. dist., mkd. NM 268 M BT.

A cedar, 12 ins. diam., bears N. 13¾° W., 57 lks. dist., mkd. COLO 268 M BT.

THE DARLING LINE, 269TH MILE

REESTABLISHMENT

S. 89° 57' W., on a reestablishment of the 269th mile.
Over nearly level land, through cedar and pinon timber.

.30 Sandstone spur, slopes S., E. rim of Cox Canon.
Set a tablet in solid rock, marked Mile Corner No. 268 + 13.30 Chs., 1868-1925, and build a mound of stone over monument.
Descend 225 ft. to bottom of canon.

.73 Road, bears N. and S., on E. side of Cox Canon bottom.

Chains THE DARLING LINE, 269TH MILE

28.40 Arroyo, in canon, 1 ch. wide; junction with wash, about 6.0 chs. dist. upstream.

38.05 Road, bears NW. and SE.; out of Cox Canon.

38.40 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 268 + 38.40 Chs., 1868-1925.

Begin ascent of 270 ft. out of canon, to a point in the 270th mile.

49.25 Leave sage brush; enter timber, bears N. and S.

51.73 The Carpenter 62nd Mi. Cor. bears North, 7.82 chs. dist.; an iron post; I remove this monument.

54.20 Wire fence, bears NE. and SW.

62.40 Top of sandstone point, bears N.; sandstone ledge bears N., about 7 lks. dist., at end of point.

64.50 Wash, 10 lks. wide, course NE.

78.25 Sandstone rim, at head of small canon, course NE. to Cox Canon.

81.75 Darling's 269th Mi. Cor.: a sandstone, 10x6x15 ins. above ground, firmly set, mkd. C on N., N on S., 68 on W. face; other marks illegible.

Construct a concrete monument, in a form 8x11x18 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 269, 1868-1925. The concrete monument adjoins the W. face of the Darling sandstone; a concrete base encompasses both monuments, and build a large mound of stone around both monuments;

from which

A pinon, 6 ins. diam., bears S. 27¼ E., 20 lks. dist., mkd. N. 269 M BT.

A cedar, 12 ins. diam., bears N. 89½ W., 15 lks. dist., mkd. COLO 269 M BT

C O L O R A D O

LA PLATA COUNTY

SOUTHERN UTE INDIAN RESERVATION

T. 32 N., R. 10 W.
T. 32 N., R. 9 W.

ASTRONOMICAL MON. No. 9

Cox Canon

Animas River

Line Canon

22 23 24 19 20 21

269 S 89° 57' W 81.75 268 S 89° 57' W 81.75 267 S 89° 56' W 79.18 266 S 89° 56' W 13.11 265+0.23 S 89° 44' W 68.27 264 S 89° 44' W 80.61 263 S 89° 44' W 80.61

+58.40 +13.30 +61.00 +68.27 +64.90 +62.75 +16.20

7 8 9 10 11 12 7

T. 32 N., R. 10 W.
T. 32 N., R. 9 W.

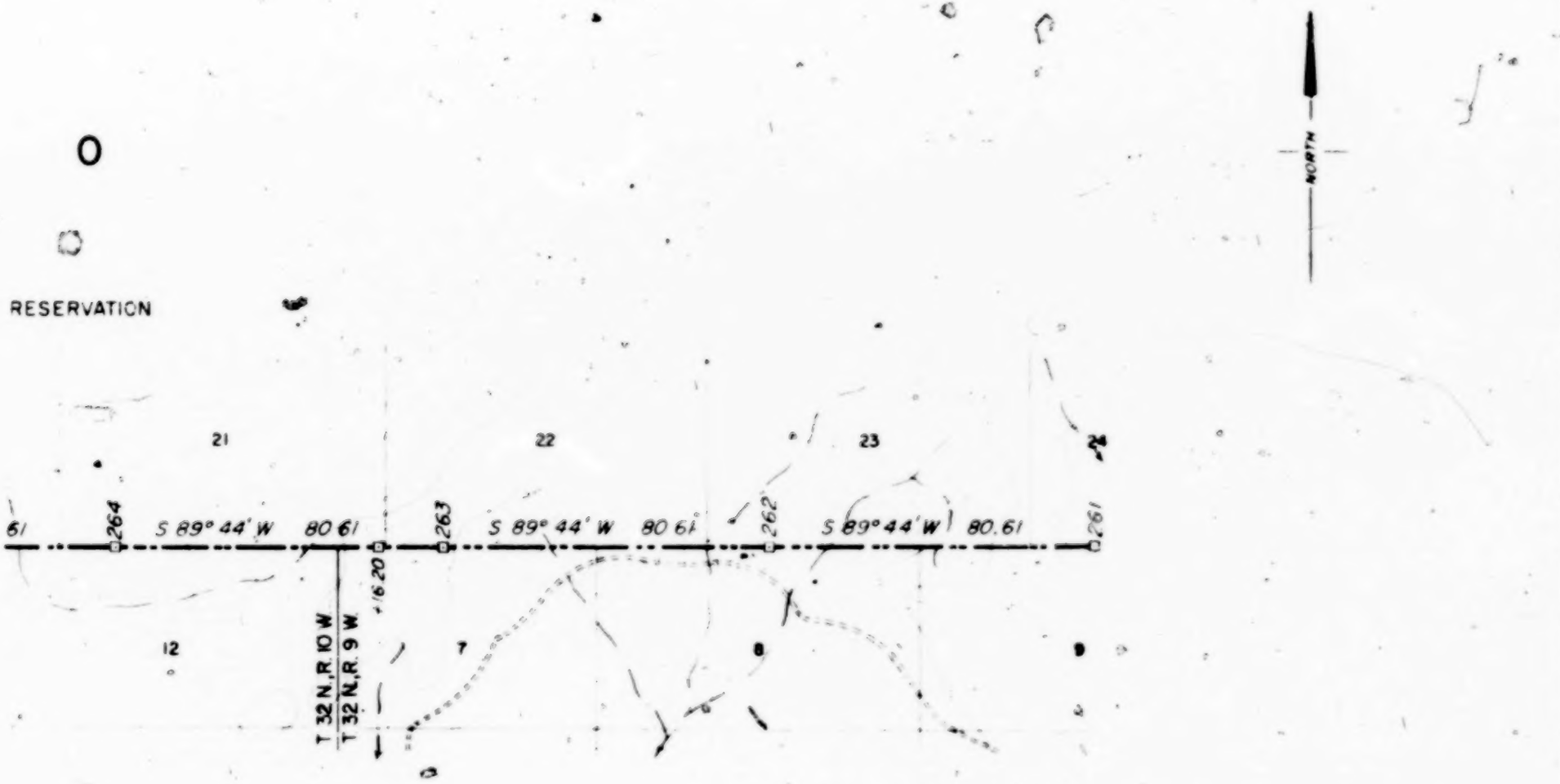
SAN JUAN COUNTY

N E W M E X I C O

SCALE

0 10 20 30 40 60 80

40 Chains to the inch



COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma

Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 269

to

MILE CORNER No. 278

THE DARLING LINE, 270TH MILE

Chains *RETRACEMENT*

West, on a retracement of the Darling boundary.

80.00 The 270th Mi. Cor. has become obliterated.

161.00 The 271st Mi. Cor. has become obliterated.

241.38 The 272nd Mi. Cor. bears N. 88 lks. dist.; on this determination the true line bears N. 89 47' W.

REESTABLISHMENT

Thence from the 269th Mi. Cor. N. 89 47' W., on a reestablishment of the 270th mile.

Ascend through cedar and pinon timber, and dense service and oak underbrush.

9.00 Top of ascent; descend 25 ft.

15.70 Bottom of descent; ascend 225 ft. over gradual and steep slopes.

21.86 Slope steepens, over rim rock and sandstone boulders.

24.93 Sandstone ledge, bears NE. and SW.

30.13 Sandstone spur, slopes N.; top of ascent; begin descent.

35.00 Bottom of 50 ft. descent; ascend 30 ft. to spur.

38.84 Top of spur, slopes N.; descend 209 ft. over gradual and steep slopes.

46.73 Sandstone rim, bears NW. and SE.; descent steepens over large boulders.

50.65 The Carpenter 61st Mi. Cor. bears North, 7.52 chs. dist.; an iron post; I remove this monument.

63.14 Small canon, course SW.

64.64 Sandstone spur between two joining canons, S., 2 chs. dist. to point of spur.

67.26 Bottom of canon, 1.50 chs. wide, rim to rim, course S.

69.00 Begin ascent of 50 ft. to point for corner.

80.00 N., 5 lks. dist., fence, bears N. 80 E. and S. 80 W.

80.46 The proportional point. Darling's 270th Mi. Cor. destroyed (Carpenter 61st Mi.).

Chains

THE DARLING LINE, 270TH MILE

Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 270, 1868-1925;

from which

A cedar, 8 ins. diam., bears N. 53° E., 19 lks. dist., mkd. COLO 270 M BT.

A cedar, 14 ins. diam., bears S. 80° E., 11 lks. dist., mkd. NM 270 M BT.

THE DARLING LINE, 271ST MILE

REESTABLISHMENT

N. 89° 47' W., on a reestablishment of the 271st mile.

Ascend gradually through cedar and pinon timber, and service brush.

11.81 Wash, 10 lks. wide, course NE.

21.35 Top of 80 ft. ascent; thence over rolling land.

23.49 Bottom of draw, 2 lks. wide, course N.

30.24 Bottom of draw, 3 lks. wide, course N.

35.00 Top of ridge, bears N. and S.; begin 150 ft. descent.

49.94 The Carpenter 60th Mi. Cor. bears North, 6.43 chs. dist., an iron post; I remove this monument and obliterate the marks on the remaining bearing tree.

62.94 Arroyo, in sage brush flat, 8 lks. wide, course NW.

78.94 Small wash, 15 lks. wide, course NW.

80.46 The proportional point: Darling's 271st Mi. Cor. destroyed (Carpenter 60th Mi.).

Point falls in a small wash; impractical to construct a monument.

THE DARLING LINE, 272ND MILE

REESTABLISHMENT

N. 89° 47' W., on a reestablishment of the 272nd mile.

Descend 29 ft.

Chains THE DARLING LINE, 272ND MILE

0.80 Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 271 + 0.80 Chs., 1868-1925;
from which
A cedar, 6 ins. diam., bears N. 46½ E., 109 lks. dist., mkd. WP COLO BT.
A cedar, 8 ins. diam., bears S. 62¾ E., 68 lks. dist., mkd. WP NM BT.
Set a cedar post in ground, alongside of monument.

3.57 A sandstone, 8x10x20 ins., and small mound of stone bears North, 1.05 chs. dist.; marks illegible; at intersection of fences, bears N. and S., E. and W.
Bottom of 29 ft. descent; ascend 150 ft. to spur.

13.70 Wash, 52 lks. wide, course SE.

15.70 Road, bears N. and S.

17.90 Enter timber, bears N. and S.

36.65 Drift fence, bears NW. and SE.

37.95 Top of spur, slopes N.; begin descent.

42.50 Bottom of descent; ascend 20 ft. over rolling land.

49.95 The Carpenter 59th Mi. Cor. bears North, 6.55 chs. dist.; an iron post; to remove this monument.

80.46 Darling's 272nd Mi. Cor.; a broken sandstone, 8x8x10 ins., lying on ground, mkd. C. and NM. on opposite faces, other marks obliterated;
from which
A cedar, bears SW., with an old blaze, marks destroyed.
A pinon, bears NW., marks destroyed.
Remains of cedar post besides sandstone.
In place of stone
Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 272, 1868-1925,
from which
A cedar, 14 ins. diam., bears N. 10¼ E., 79 lks. dist., mkd. COLO 272 M BT.
A cedar, 14 ins. diam., bears S. 30¾ E., 47 lks. dist., mkd. NM 272 M BT.

THE DARLING LINE, 273RD MILE

Chains

RETRACEMENT

West, on a retracement of the Darling boundary.

80.00 The 273rd Mi. Cor. has become obliterated.

82.59 Cor. secs. 23 and 24, T. 32 N., R. 11 W., NM Prin. Mer., Colorado bears South, 57.7 lks. dist.

Thence from the above section corner, with a random traverse, continuing on a retracement of the Darling boundary.

159.96 The 274th Mi. Cor. has become obliterated.

Thence from the point for the 274th Mi. Cor. N. 88 .. W., continuing on a retracement of the Darling boundary.

165.74 Cor. secs. 23 and 24, T. 32 N., R. 11 W., NM Prin. Mer., Colorado.

Thence from the above section corner, West, continuing on a retracement of the Darling boundary.

240.45 Darling's 275th Mi. Cor. bears N. 2 lks. dist.; on this determination the true line bears S. 89 50' W.

REESTABLISHMENT

Thence from the 272nd Mi. Cor. S. 89 50 W., on a reestablishment of the 273rd mile.

Ascend 25 ft. to road.

4.86 Road, bears NW. and SE.

5.40 Construct a concrete monument, in a form 16x24x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 272 + 5.40 Chs., 1868-1925;

from which

A cedar, 16 ins. diam., bears N. 17¼ W., 57 lks. dist.; mkd. W P COLO BT.

A cedar, 12 ins. diam., bears S. 80¾ E., 34 lks. dist., mkd. W P NM BT.

Ascend 100 ft. to top of ridge.

24.31 Top of ridge, bears NW. and SE.; begin descent of 140 ft.

41.14 The Carpenter 58.1 Mi. Cor., bears North, 6.48 chs. dist.; an iron post; I remove this monument and obliterate the marks on the three bearing trees.

Chains

THE DARLING LINE, 273RD MILE

42.49 The ¼ cor. of sec. 24, T. 32 N., R. 11 W., NM Prin. Mer., Colorado, bears South, 35 lks. dist.; a sandstone, 8x6x12 ins. above ground, mkd. ¼ on N. face; a mound of stone N. of cor.

43.65 Fence, bears NW. and SE.

47.76 Sandstone ledge, bears NW. and SE.

58.42 Leave timber, bears N. and S.

69.35 Enter cedar and pinon timber, bears N. and S.

80.15 The proportional point; Darling's 273rd Mi. Cor. destroyed (Carpenter 58th Mi.).

Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 273, 1868-1925;

from which

A cedar, 8 ins. diam., bears N. 14½ E., 22 lks. dist., mkd. COLO 273 M BT.

A cedar, 6 ins. diam., bears S. 81 W., 8 lks. dist., mkd. NM 273 M BT.

THE DARLING LINE, 274TH MILE

REESTABLISHMENT

S. 89 50' W., on a reestablishment of the 274th mile.

Thence over rough rolling land, through cedar and pinon timber.

2.44 Cor. of secs. 23 and 24; T. 32 N., R. 11 W., NM Prin. Mer., Colorado, bears South, 33 lks. dist.; a sandstone, 10x4x10 ins. above ground, firmly set, mkd. 1 groove on E., 5 grooves on W. face, with a NE. and a NW. bearing tree.

9.80 Top of low ridge, bears N. and S.

41.99 The ¼ cor. of sec. 23, T. 32 N., R. 11 W., NM Prin. Mer., Colorado, bears South, 24 lks. dist.; a sandstone, 8x5x6 ins. above ground, mkd. ¼ on N. face, with two bearing trees.

49.87 The Carpenter 57th Mi. Cor. bears North, 6.54 chs. dist.; an iron post; I remove this monument and obliterate the marks on the three bearing trees.

Chains

THE DARLING LINE, 274TH MILE

80.15 The proportional point: Darling's 274th Mi. Cor. destroyed (Carpenter 57th Mi.).

Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 274, 1868-1925;

from which

A cedar, 7 ins. diam., bears N. 30° E., 67 lks. dist., mkd. COLO 274 M BT.

A cedar, 12 ins. diam., bears S. 38° E., 81 lks. dist., mkd. NM 274 M BT.

THE DARLING LINE, 275TH MILE

REESTABLISHMENT

S. 89° 50' W., on a reestablishment of the 275th mile.

Ascend 65 ft., through cedar and pinon timber.

5.46 Cor. of secs. 22 and 23, T. 32 N., R. 11 W., NM Prin. Mer., Colorado, bears South, 24 lks. dist.; two sandstones, side by side, 8x4x8 ins. and 10x3x4 ins. above ground, firmly set, marks illegible; with one marked bearing tree.

26.20 Top of ascent; thence across nearly level sandstone flat through cedar and pinon timber.

38.80 Top of sandstone bluff, bears N. and S.

Set a tablet in solid rock, marked Mile Corner No. 274 + 38.80 Chs., 1868-1925;

from which

A cedar, 12 ins. diam., bears N. 25½° E., 70 lks. dist., mkd. WP COLO BT.

A cedar, 14 ins. diam., bears S. 30½° E., 53 lks. dist., mkd. WP COLO BT.

Begin steep descent of 165 ft.

39.16 Sandstone ledge, bears N. and S. This ledge was mentioned by Darling at 274th Mi. plus 39.00 chs.

50.08 The Carpenter 56th Mi. Cor. bears North, 6.74 chs. dist.; an iron post; I remove this monument and obliterate the marks on the remaining bearing tree.

Chains ..... THE DARLING LINE, 275TH MILE

51.50 Fence, bears N. and S.

55.70 Bottom of descent; enter flats; leave timber, bears NW. and SE. Road, bears NW. and SE.

62.50 Arroyo, 10 lks. wide, course NW.

65.00 Leave flats; enter cedar and pinon timber; bears NW. and SE.; ascend 30 ft. to top of spur.

69.25 Top of spur, slopes N.

78.15 Fence, bears NW. and SE.

80.15 Darling's 275th Mi. Cor.: a cedar, 12 ins. diam., blazed on four sides, figure 8 still visible on W. face, chip mkd. NM. found at foot of tree, other chips carried scribe marks. Remark the tree for corner.

THE DARLING LINE, 276TH MILE

RETRACEMENT

West on a retracement of the Darling boundary.

91.38 The 276th Mi. Cor. bears S. 42.7 lks. dist.; on this determination the true line bears S. 89° 42' W.

REESTABLISHMENT

Thence from the 275th Mi. Cor. S. 89° 42' W., on a reestablishment of the 276th mile.

Descend 184 ft. to corner, through heavy cedar and pinon timber and sage brush.

0.30 Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 275 + 0.30 Chs., 1868-1925;

from which

A cedar, 10 ins. diam., bears N. 24½° E., 38 lks. dist., mkd. WP COLO BT.

A cedar, 16 ins. diam., bears S. 29° E., 21 lks. dist., mkd. WP NM BT.

5.29 The closing cor. of secs. 21 and 22, T. 32 N., R. 11 W., NM Prin. Mer., Colorado, bears North, 4 lks. dist.; a boulder stone, 6x4x?

Chains

THE DARLING LINE, 276TH MILE

ins. above ground, mkd. CC on N., 3 grooves on E., 3 grooves on W. face, with two bearing trees.

6.50 Leave timber, enter sage brush.

44.95 The ¼ cor. of sec. 21, T. 32 N., R. 11 W., NM Prin. Mer., Colorado bears South, 20 lks. dist.; a sandstone, 7x5x8 ins. above ground, mkd. ¼ on N. face.

50.11 The Carpenter 55th Mi. Cor. bears North, 7.38 chs. dist.; an iron post, firmly set; I remove this monument and obliterate the marks on the bearing tree.

75.56 Arroyo, 54 lks. wide, course NW.

81.38 The Darling 276th Mi. Cor.; a small mound of stone, none mkd., and a piece of a cedar post, mkd. COLO. lying on ground alongside.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 276, 1868-1925.

An E. and W. wire fence, bears N., 38 lks. dist.

THE DARLING LINE, 277TH MILE

RETRACEMENT

West, on a retracement of the Darling boundary.

80.00 The 277th Mi. Cor. has become obliterated.

160.14 The 278th Mi. Cor. bears N. 43 lks. dist.; on this determination the true line bears N. 89° 51' W.

REESTABLISHMENT

Thence from the 276th Mi. Cor. N. 89° 51' W., on a reestablishment of the 277th mile.

Ascend 46 ft.

4.47 The closing cor. of secs. 20 and 21, T. 32 N., R. 11 W., NM Prin. Mer., Colorado; a sandstone, 8x4x5 ins. above ground, mkd. CC on N., 4 grooves on E., and 2 grooves on W. face.

An E. and W. fence bears S., 1 lk. dist.

6.07 Fence, bears E. and W.

Chains

THE DARLING LINE, 277TH MILE

10.47 Enter timber, bears NW. and SE.

25.45 Top of ascent: descend 100 ft. to point for corner.

44.07 The ¼ cor. of sec. 20, T. 32 N., R. 11 W., NM Prin. Mer., Colorado, bears North, 25 lks. dist.: a sandstone, 8x4x6 ins. above ground, mkd. ¼ on N. face.

48.80 The Carpenter 54th Mi. Cor. bears North, 6.71 chs. dist.: an iron post, firmly set: I remove this monument.

62.44 Enter cedar timber, bears NW. and SE.

80.07 The proportional point: 277th Mi. Cor. destroyed (Carpenter 54th Mi.).

Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 277, 1868-1925:

from which

A cedar, 10 ins. diam., bears S. 23° E., 43 lks. dist., mkd. NM 277 M BT.

A cedar, 8 ins. diam., bears N. 23¾° W., 21 lks. dist., mkd. COLO 277 M BT.

Corner stands 15 lks. S. of an E. and W. wire fence.

THE DARLING LINE, 278TH MILE

REESTABLISHMENT

N. 39° 51' W., on a reestablishment of the 278th mile.

Descend 146 ft. slope, through timber.

4.49 The closing cor. of secs. 19 and 20, T. 32 N., R. 11 W., NM Prin. Mer., Colorado, bears North, 11 lks. dist.: a sandstone, 10x4x18 ins., set 12 ins. in the ground, mkd. with 5 grooves on E. and 1 groove on W. face: a cedar bearing tree according to record. This corner was found lying on ground.

21.70 Fence, bears N. and S.

35.10 Leave timber, bears N. and S.

36.70 Irrigation ditch, dry, course SW.

41.67 North, 10 lks. dist.: a sandstone, 18x8x8 ins., lying on ground, mkd. CC. on one face: this location appears to be about 4.30 chs. E.

Chains THE DARLING LINE, 278TH MILE

of the N. and S. center line of sec. 10, T. 32 N., R. 12 W., NM Prin. Mer., New Mexico.

44.21 North, 7 lks. dist.: a sandstone, 8x4x8 ins., above ground, mkd. ' on N. face; this is near the N. and S. center line of sec. 19, T. 32 N., R. 11 W., NM Prin. Mer., Colorado.

48.73 The Carpenter 53rd Mi. Cor. bears North, 6.52 chs. dist.: an iron post, firmly set; I remove this monument.

55.10 Trail, bears NW. and SE.

73.40 Trail, bears NW. and SE.

74.80 Arroyo, course NW.

75.80 Road, ungraded, bears N. and S.

76.90 Construct a concrete monument, in a form 16x24x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 277 + 76.90 Chs., 1868-1925, and build a mound of stone around the monument.

80.07 Darling's 278th Mi. Cor.: a closely scattered mound of stone, none mkd.: a cedar post, 3 ins. x 3 ins. x 3 ft., deposited under ground.

In place of post

Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 278, 1868-1925, and build a mound of stone around the monument;

from which

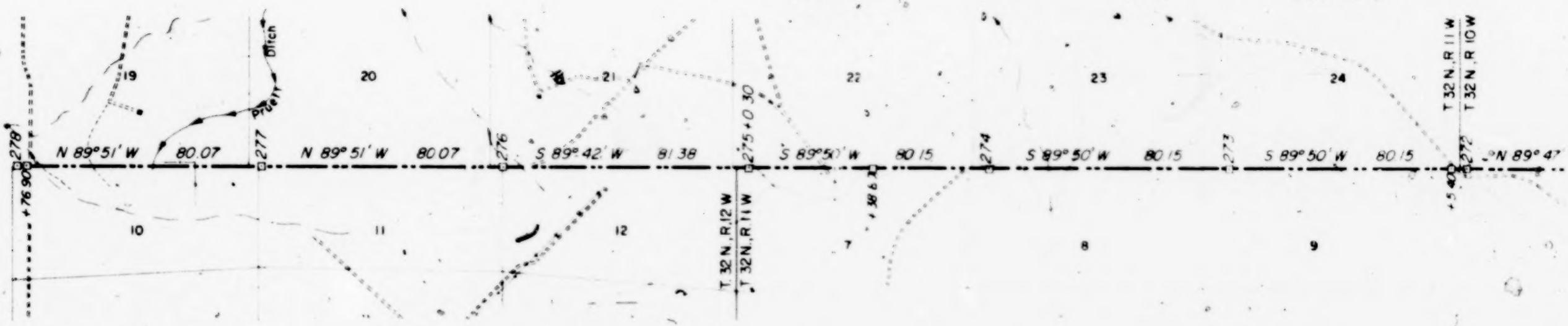
A cedar, 10 ins. diam., bears S. 15½ E., 45 lks. dist., mkd. NM 278 M BT.

A cedar, 4 ins. diam., bears N. 38 W., 78 lks. dist., mkd. BT.

C O L O R A D O

LA PLATA COUNTY

SOUTHERN UTE INDIAN RESERVATION



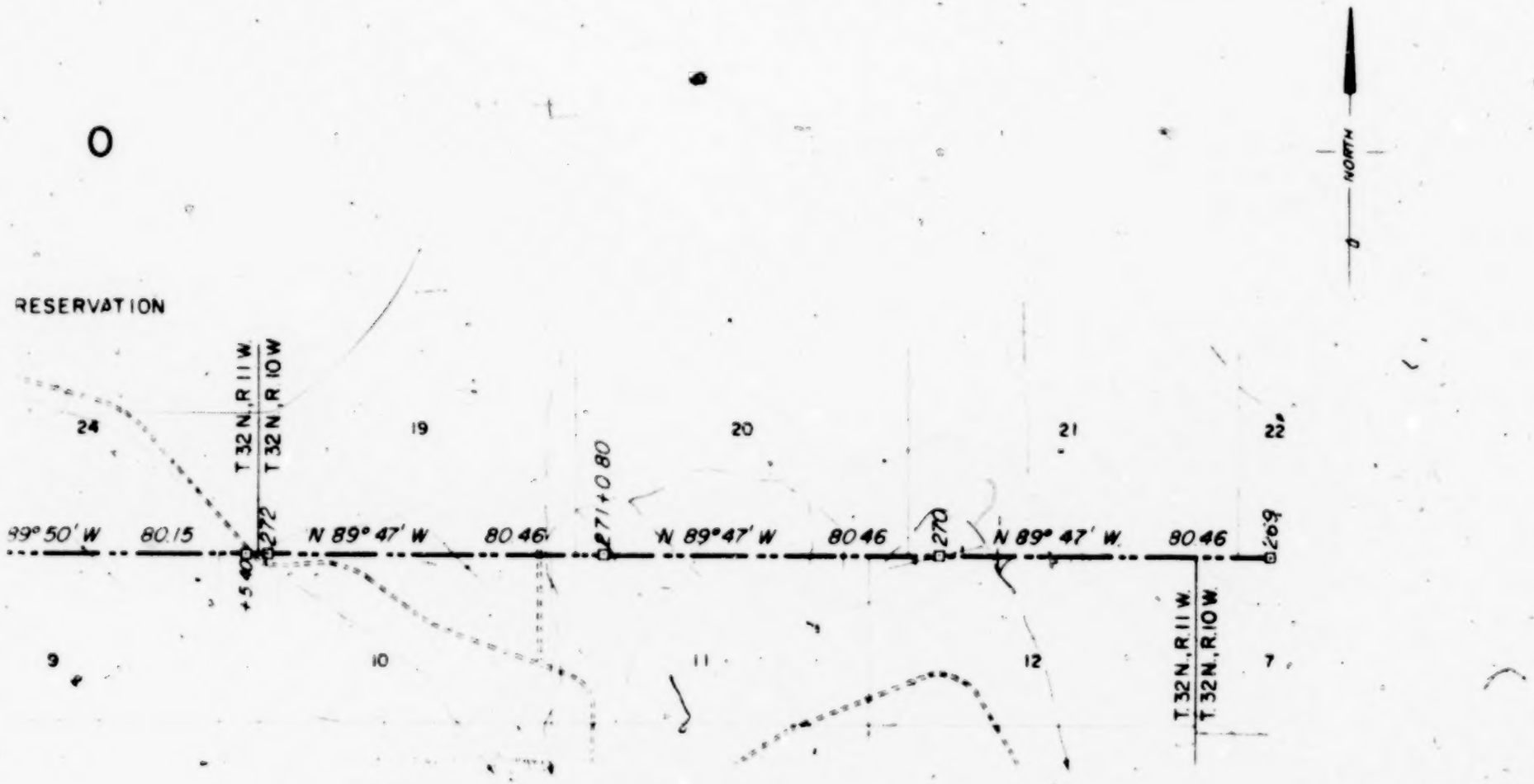
SAN JUAN COUNTY

N E W M E X I C O

SCALE

0 10 20 30 40

40 Chains to the inch



C O

COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma

Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 278

to

MILE CORNER No. 289 + 35

THE DARLING LINE, 279TH MILE

Chains

RETRACEMENT

West, on a retracement of the Darling boundary.

80.00 The 279th Mi. Cor. has become obliterated.

159.88 The 280th Mi. Cor. bears S. 11.2 lks. dist.; on this determination the true line bears S. 89° 57′ W.

REESTABLISHMENT

Thence from the 278th Mi. Cor. S. 89° 57′ W., on a reestablishment of the 279th mile.

Begin ascent of 75 ft.

1.61 South, 2 lks. dist.; a sandstone, 8x4x12 ins., lying on ground, mkd. ¼ CC. on one face; this point appears to be about 3.50 chs. E. of the record position for the closing cor. of secs. 9 and 10, T. 32 N., R. 12 W., NM Prin. Mer., New Mexico.

4.09 The closing cor. of T.32 N., Rs. 11 and 12 W., NM Prin. Mer., Colorado; a sandstone, 12x20x9 ins. above ground, mkd. CC on N., 6 grooves on E., 6 grooves on W. face.

5.23 Top of low ridge, bears N. and S.; abrupt descent of 75 ft. over ridge face.

28.35 Fork of two deep arroyos, course N.; ascend 65 ft. to ridge top.

37.50 Enter timber, bears NE. and SW.

37.90 Foundation of old stone dwelling, bears S., about 2 chs. dist.

41.50 Top of ridge, bears N. and S.

N. face of sandstone boulder, 20x30 ft., 10 ft. high, bears S., 18 lks. dist.; descend 72 ft.

44.90 North, 1 lk. dist.; a sandstone, 10x4x22 ins., firmly set in ground and small mound of stone, mkd. ¼ on N. face; a cedar bearing tree, bears NE., mkd. ¼ S. BT.

This location is near the record position for the N. and S. center lines of sec. 24, T. 32 N., R. 12 W., NM Prin. Mer., Colorado, and sec. 9, T. 32 N., R. 12 W., New Mexico.

48.56 The Carpenter 52nd Mi. Cor. bears North, 6.37 chs. dist.; an iron post, firmly set; I remove this monument and obliterate the marks on the two bearing trees.

hains

THE DARLING LINE, 279TH MILE

48.61 Deep arroyo, course N.

65.60 Road, bears NE. and SW., a corral, bears S., about 3½ chs. dist.

73.50 Top of steep bluff.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 278 + 73.50 Chs., 1868-1925, and build a mound of stone around the monument;

from which

A cedar, 20 ins. diam., bears N. 72½ E., 192 lks. dist., mkd. WP COLO BT.

A cedar, 8 ins. diam., bears S. 70¾ W., 45 lks. dist., mkd. WP NM BT.

Descend 70 ft. to point for corner.

79.94 The proportional point; the 279th Mi. Cor. destroyed (Carpenter 52nd Mi.).

Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 279, 1868-1925, and build a mound of stone around the monument;

from which

A cedar, 12 ins. diam., bears S. 76½ W., 149 lks. dist., mkd. NM 279 M BT.

THE DARLING LINE, 280TH MILE

REESTABLISHMENT

S. 89 57 W., on a reestablishment of the 280th mile.

Ascend 100 ft.

1.66 Bend of McDermott Arroyo, course from NE. turning to NW.; left bank near line.

4.66 North, 16 lks. dist.; a sandstone, 6x6x12 ins., firmly set in the ground, no marks. This location is near the record position for the closing cor. of secs. 23 and 24, T. 32 N., R. 12 W., NM Prin. Mer., Colorado, and secs. 8 and 9, T. 32 N., R. 12 W., New Mexico.

16.68 McDermott Arroyo, 1 ch. wide, course S. 60 W

Chains

THE DARLING LINE, 280TH MILE

27.60 Top of spur, slopes S.

34.76 Arroyo, course S. 60 E.; begin steep ascent of 215 ft.

48.08 The Carpenter 51st Mi. Cor. bears North, 6.35 chs. dist.; an iron post; I remove this monument and obliterate the marks on the remaining bearing tree.

69.86 Top of ridge, bears N. and S.

78.40 Begin steep descent of 85 ft. to gulch.

79.94 Darling's 280th Mi. Cor.; a sandstone boulder, 30x36x14 ins., mkd. with X near top center. This was the last original Darling monument to be identified East of Darling's Astronomical Monument No. 10. Did not seat a tablet in boulder to avoid obliterating original mark.

THE DARLING LINE, 281ST MILE

RETRACEMENT

West, on a retracement of the Darling boundary.

80.00 The 281st Mi. Cor. has become obliterated.

160.00 The 282nd Mi. Cor. has become obliterated.

240.00 The 283rd Mi. Cor. has become obliterated.

320.00 The 284th Mi. Cor. has become obliterated.

400.00 The 285th Mi. Cor. has become obliterated.

481.95 The closing cor. of secs. 7 and 8, Tps. 32 N., R. 13 W., Colorado and New Mexico, bears South, 5 lks. dist. The record shows that the position of Darling's 286th Mi. C[illegible] should be West, 1.50 chs. from this closing corner.

483.45 South, 5 lks. dist.; the record position of Darling's 286th Mi. Cor.; on this determination the true line bears West.

REESTABLISHMENT

Thence from the 280th Mi. Cor. West, on a reestablishment of the 281st mile.

Descend 85 ft. on W. slope to gulch.

Chains THE DARLING LINE, 281ST MILE

2.54 Portal of coal mine, bears N., 30 lks. dist.

5.22 Coal mine tipple, bears S., 1.50 chs. dist.
Gulch bottom, white sandstone, course S. 30 W.; begin ascent of E. slope, through cedar and pinon timber and service brush.

5.52 Road, bears N. and S.

6.00 Well, bears S., approximately 3 chs. dist.

7.30 Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 280 + 7.30 Chs., 1868-1925;
from which
A cedar, 14 ins. diam., bears N. 64° E., 16 lks. dist., mkd. WP COLO BT.
A cedar, 20 ins. diam., bears S. 17 W., 13 lks. dist., mkd. WP NM BT.

44.77 The Carpenter 50.05 Mi. Cor. bears North, 6.17 chs. dist.; an iron post; I remove this monument.

49.67 Sandstone bluff, bears NE. and SW.
Set tablet in solid rock, marked Mile Corner No. 280 + 49.67 Chs., 1868-1925, and build a mound of stone on tablet;
from which
A cedar, 14 ins. diam., bears S. 2 E., 36 lks. dist., mkd. WP NM BT.
Abrupt descent of 200 ft. over W. face of bluff to valley.

61.10 Deep arroyo, 20 lks. wide, course S.

64.00 Center of arroyo, 2 chs. wide, course S.

66.00 Road, bears N. and S.

72.10 Arroyo, 70 lks. wide, course SE.

80.25 The proportional point, based upon the Darling field note calls between the 280th and 283rd mile stations; the Darling 281st Mi. Cor. destroyed (Carpenter 50th Mi.).
Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 281, 1868-1925;
from which

Chains

THE DARLING LINE, 281ST MILE

A cedar, 16 ins. diam., bears S. 6½ E., 19 lks. dist., mkd. NM 281 M BT.

A cedar, 18 ins. diam., bears N. 5 W., 27 lks. dist., mkd. COLO 281 M BT.

The original Darling stone was found North, 23 lks. dist.; a broken sandstone, lying on ground, mkd. 8 on one face, other marks illegible. Unable to determine the original position of the sandstone.

Set remains of this stone alongside concrete monument.

THE DARLING LINE, 282ND MILE

REESTABLISHMENT

West, on a reestablishment of the 282nd mile.

Ascend 200 ft. over broken country, through cedar and pinon timber.

49.12 The Carpenter 49th Mi. Cor. bears North, 6.02 chs. dist.; an iron post; I remove this monument.

67.00 Arroyo, course N. 30° E.

80.25 The proportional point, based upon the Darling field note calls between the 280th and 283rd mile stations; the Darling 282nd Mi. Cor. destroyed (Carpenter 49th Mi.).

Construct a concrete monument, in a form 8x11x18 ins., set 20 ins. in the ground, with tablet seated in the top marked Mile Corner No. 282, 1868-1925, and build a large mound of stone over the monument;

from which

A cedar, 18 ins. diam., bears S. 67° W., 31 lks. dist., mkd. NM 282 M BT.

A cedar, 8 ins. diam., bears N. 45½ W., 33 lks. dist., mkd. COLO 282 M BT.

THE DARLING LINE, 283RD MILE

REESTABLISHMENT

West, on a reestablishment of the 283rd mile.

Ascend 67 ft. on N. slope, through cedar and pinon timber.

Chains THE DARLING LINE, 283RD MILE

24.50 Top of ascent; begin descent of 130 ft.

43.00 Leave timber; enter sage brush.

48.75 The Carpenter 48th Mi. Cor. bears North, 6.06 chs. dist.; an iron post; I remove this monument and obliterate the marks on the remaining bearing tree.

70.80 Fork of two arroyos, course SW.; bottom of descent; ascend 63 ft. to point for corner.

79.59 Darling's 283rd Mi. Cor. found South, 62 lks. dist., part of a broken sandstone, lying on ground, mkd. C., NM., 180, 283 on opposite faces. Other piece found West, about 1 ch. dist., mkd. with part of 8 of 1868.

80.25 The proportional point, based upon the Darling field note calls between the 280th and 283rd mile stations; the Darling 283rd Mi. Cor. destroyed (Carpenter 48th Mi.).

Construct a concrete monument, in a form 8x14x36 ins., set 26 ins. in the ground, with tablet seated in the top marked Mile Corner No. 283, 1868-1925;

from which

A cedar, 10 ins. diam., bears N. 78½ E., 129 lks. dist., mkd. COLO 283 M BT.

A cedar, 8 ins. diam., bears S. 71½ W., 137 lks. dist., mkd. NM 283 M BT.

Original Darling 283rd Mi. Cor. set in concrete base North of concrete monument.

THE DARLING LINE, 284TH MILE

REESTABLISHMENT

West, on a reestablishment of the 284th mile.

Descend 45 ft. through sage brush.

7.40 Small draw, course S. 60° W.

16.75 Descend 75 ft. to valley floor.

18.90 Irrigation ditch, course S.

19.75 Road, from Durango, Colorado, to Farmington, New Mexico, bears N. and S.

Chains THE DARLING LINE, 284TH MILE

20.40 Construct a concrete monument, in a form 16x24x36 ins., set 28 ins. in the ground, with tablet seated in the top marked Mile Corner No. 283 + 20.40 Chs., 1868-1925.

from which

An oak, 4 ins. diam., bears N. 31 W., 51 lks. dist., mkd. BT.

Elevation of the tablet is 5997.375 ft. above sea level.

20.50 Telephone line, bears N. and S.

Wire fence, bears N. and S.; enter cultivated land.

22.41 The Carpenter 47.375 Mi. Cor. bears North, 6.03 chs. dist.; an iron post; and is a U. S. Geological Survey Bench Mark, elevation stamped in monument cap, 6000.000 ft. I destroyed the marks on the cap identifying the post as a Carpenter boundary marker preserving its other functions.

25.65 Farm lane, bears N. and S.

28.15 Center of La Plata River, 30 lks. wide, course S.; Colorado Engineering Department Gauging Station and foot bridge.

28.75 Enter cultivated fields, N. and S.

59.45 Wire fence, bears N. and S.; leave cultivated fields; enter sage brush.

60.25 Irrigation ditch, course S.

63.00 Farm road, bears N. and S.

65.50 Begin ascent of 125 ft. out of valley.

71.00 Top of low ridge, bears N. and S.

76.00 Top of ascent; descend 34 ft. to point for corner.

80.90 The proportional point, based on the Darling field note calls between the 283rd and 286th mile stations: Darling's 284th Mi. Cor. destroyed (Carpenter 48th Mj.).

Construct a concrete monument, in a form 8x14x36 ins., set 28 ins. in the ground, with tablet seated in the top marked Mile Corner No. 284, 1868-1925, and build a large mound of stone around the monument;

from which

A cedar, 6 ins. diam., bears S. 52¾ E., 8 lks. dist., mkd: NM 284 M BT.

A cedar, 8 ins. diam., bears N. 24½ W., 32 lks. dist., mkd. COLO 284 M BT.

THE DARLING LINE, 285TH MILE

Chains *REESTABLISHMENT*

West, on a reestablishment of the 285th mile.
Descend on rocky S. slope; through sage brush.

11.15 Arroyo, 35 lks. wide, course S. 60 E.; ascend 85 ft. on NW. slope.

22.65 Top of ridge, bears NE. and SW.; begin descent of 40 ft.

29.30 Arroyo, 15 lks. wide, course N. 30 E.; ascend 150 ft., through dense cedar and pinon timber.

46.67 The Carpenter 46th Mi. Cor. bears North, 0.15 chs. dist.; an iron post; I remove this monument and obliterate the marks on the remaining bearing tree.

49.55 Road, bears NW. and SE.; top of ascent; begin descent of 25 ft.

63.55 Graded road, bears N. 30 W. and S. 30 E.

64.00 Construct a concrete monument, in a form 8x14x36 ins., set 28 ins. in the ground, with tablet seated in the top marked Mile Corner No. 284 + 64.00 Chs., 1868-1925;

from which

A cedar, 18 ins. diam., bears S. 67¾ W., 49 lks. dist., mkd. WP NM BT.

A cedar, 8 ins. diam., bears N. 48½ W., 39 lks. dist., mkd. WP COLO BT.

Ascend 95 ft. to point for corner.

80.90 The proportional point, based on the Darling field note calls between the 283rd and 286th mile stations; unable to identify Darling's 285th Mi. Cor.

Construct a concrete monument, in a form 8x11x18 ins., set 14 ins. in the ground, with tablet seated in the top marked Mile Corner No. 285, 1868-1925, and build a large mound of stone around the monument;

from which

A cedar, 14 ins. diam., bears S. 23½ E., 28 lks. dist., mkd. NM 285 M BT.

A cedar, 18 ins. diam., bears N. 52¾ W., 17 lks. dist., mkd. COLO 285 M BT.

The Darling Line, 286th Mile

Chains *REESTABLISHMENT*

West, on a reestablishment of the 286th mile.

Ascend 210 ft., through dense cedar and pinon timber.

40.50 S. end of open stone flat, about 3½ acres.

42.35 E. wall of rocky gulch, course SE.

47.02 The Carpenter 45th Mi. Cor. bears North, 6.06 chs. dist., an iron pipe; I remove this monument and obliterate the marks on the three bearing trees.

49.40 W. wall of rocky gulch.

59.00 E. rim of canon, about 2½ chs. S. of the head, course SE.

63.80 W. rim of above canon.

68.35 E. cliff of deep canon, course SE.

78.80 W. cliff of above canon.

79.40 The closing cor. of secs. 7 and 8, T. 32 N., R. 13 W., NM Prin. Mer., Colorado, bears South, 5 lks. dist., a sandstone, 10x4x14 ins., set in mound of stone, mkd. C on N., 5 grooves on E., and 1 groove on W. face.

80.90 Position of the original Darling 286th Mi. Cor.; the location in departure as derived from the record of the above described closing corner.

Construct a concrete monument, in a form 8x11x18 ins., set on top of flat rock, against a sandstone ledge, with tablet seated in the top marked Mile Corner No. 286, 1868-1925, and build a large mound of stone around the monument;

from which

A cedar, 8 ins. diam., bears S. 55½ E., 25 lks. dist., mkd. NM 286 M BT.

A cedar, 8 ins. diam., bears N. 31½ W., 27 lks. dist., mkd. COLO 286 M BT.

The Darling Line, 287th Mile

RETRACEMENT

West, on a retracement of the Darling boundary.

80.00 The 287th Mi. Cor. has become obliterated.

Chains. THE DARLING LINE, 287TH MILE

160.00 The 288th Mi. Cor. has become obliterated

240.00 The 289th Mi. Cor. has become obliterated

275.00 The position for Darling's terminal point; on this determination the true line bears West

REESTABLISHMENT

Thence from the 286th Mi. Cor. West, on a reestablishment of the 287th mile.

Ascend gradually over rough and stony ground, through dense small cedar and pinon timber, ascend 280 ft. to top of slope.

18.00 Rim of deep canon, bears N. 60° W. and S. 60° E.

31.00 W. rim of canon.

45.40 The Carpenter 44th Mi. Cor. bears North, 6.07 chs. dist., an iron post; I remove this monument and obliterate the marks on the two bearing trees.

56.62 Intersect the east boundary of the Ute Mountain Indian Reservation as surveyed by C. R. Burt, U. S. Surveyor, in 1914.

North, 6.07 chs. dist., an iron post, 3 ins. diam., firmly set in mound of stone, with brass cap marked and witnessed as described in the official record; I did not disturb this monument.

76.60 The ruins of old Pueblo dwelling, bears N., 0.50 chs. dist.; descend 15 ft.

80.00 The position for the 287th Mi. Cor.; unable to identify Darling's monument.

Set a tablet in sandstone ledge, marked Mile Corner No. 287, 1868-1925;

from which

A cedar, 12 ins. diam., bears N. 26½° E., 14 lks. dist., mkd. COLO 287 M BT.

A cedar, 14 ins. diam., bears S. 64½° E., 34 lks. dist., mkd. NM 287 M BT.

Raise a mound of stone, 4 ft. base, 2 ft. high, 4 ft. W. of the tablet.

THE DARLING LINE, 288TH MILE

REESTABLISHMENT

West, on a reestablishment of the 288th mile.

Ascend 157 ft. over deep gulches and broken ridge spurs, draining and bearing SE., through dense cedar and pinon timber.

41.23 The Carpenter 43.05 Mi. Cor. bears North, 0.05 chs. dist., an iron post. I remove this monument and obliterate the marks on the four bearing trees.

76.00 Summit of high ridge, bears NW. and SE.

set a red brass tube, 3.5 ins. diam., 36 ins. long, 20 ins. in the ground on solid rock, with cap marked Mile Corner No. 287 76.00 Chs., 1868-1925, and build a mound of stone around the monument.

from which

A cedar, 6 ins. diam., bears N. 56½ E., 43 lks. dist., mkd. WP COLO BT.

A cedar, 16 ins. diam., bears S. 46½ E., 46 lks. dist., mkd. WP NM BT.

Descend 8 ft. to point for corner.

80.00 The position for the 288th Mi. Cor. unable to identify Darling's monument.

set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 288, 1868-1925, and build a mound of stone around the monument.

from which

A cedar, 12 ins. diam., bears N. 46½ E., 38 lks. dist., mkd. COLO 288 M BT.

A cedar, 8 ins. diam., bears S. 64 W., 57 lks. dist., mkd. NM 288 M BT.

THE DARLING LINE, 289TH MILE

REESTABLISHMENT

West, on a reestablishment of the 289th mile.

Descend 100 ft. through dense cedar and pinon timber.

0.50 E. rim of Little Barker Canon, bears N. and S., ascend 75 ft. over canon to a point on W. rim.

Chains

THE DARLING LINE, 289TH MILE

23.50 W. rim of canon, bears N. and S.; ascend 72 ft.

36.88 Descend 118 ft. to W. rim of gulch.

44.02 The Carpenter 42nd Mi. Cor. bears North, 6.05 chs. dist.; an iron post; I remove this monument and obliterate the marks on the two bearing trees.

53.00 E. rim of gulch, bears NW. and SE.

64.00 W. rim of gulch; ascend 70 ft. to point for corner.

64.13 South, 1 ch. dist.; road to gas well turns sharply.

80.00 The position for the 289th Mi. Cor.; unable to identify Darling's monument.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 289, 1868-1925;

from which

A cedar, 5 ins. diam., bears N. 52 W., 94 lks. dist., mkd. COLO 289 M BT.

A cedar, 8 ins. diam., bears S. 58 W., 126 lks. dist., mkd. NM 289 M BT.

Monument stands north of graded road, bearing SE. from high ridge.

THE DARLING LINE, 290TH MILE

REESTABLISHMENT

West, on a reestablishment of the 290th mile.

Ascend 128 ft. to top of ridge, through dense cedar and pinon timber.

14.50 Gulch, course N. 70 E.

27.40 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 289 + 27.40 Chs., 1868-1925, and build a mound of stone and earth around the monument;

from which

A cedar, 14 ins. diam., bears N. 20 E., 32 lks. dist., mkd. WP COLO BT.

A cedar, 12 ins. diam., bears S. 4 E., 41 lks. dist., mkd. WP NM BT.

Chains

THE DARLING LINE, 290TH MILE

27.80 Road, on summit of high ridge, bearing NW. and turning to S.; descend 15 ft.

35.00 The position for Darling's terminal point; Darling did not establish a monument.

Long-range bearings taken on Darling's tangent to the parallel

Center of a slide on distant mountain, bears N. 5° W.

Hay Stack peak, on distant sky line, bears N. 18° 10' W.

High point of Ute Mountain, conical form, bears N. 53° 15' W.

These long-range sights agree reasonably with the Darling record, and some of the calls of the field notes were found to be roughly accurate, but positions in departure were not sufficiently in agreement to justify any modification of the regular mile lengths of 80.00 chs.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 289 + 35.00 Chs.; 1868-1925, and build a mound of earth around the monument;

from which

A cedar, 12 ins. diam., bears N. 74½° E., 27 lks. dist., mkd. WP COLO BT.

cedar, 14 ins. diam., bears N. 22½° W., 85 lks. dist., mkd. WP COLO BT.

C O L O R A D

LA PLATA COUNTY

UTE MOUNTAIN INDIAN RESERVATION

SOUTH

T. 32 N., R. 13 W.

WEST 55.00 — WEST 80.00 — WEST 80.00 — WEST 80.00 — WEST 80.90 — WEST 80.90 — WEST 80.90

289 288 287 286 285 284

7 8 9 10

Canon

Little Barker

+35.00 +37.40 +76.00 +64.00 +20.40

Piedra

UTE MOUNTAIN INDIAN RESERVATION

T. 32 N., R. 13 W.

SAN J'JAN COUNTY

N E W . M E X I

SCALE

0 10 20 30 40

40 Chains to the inch

A D O

NTY

SOUTHERN UTE INDIAN RESERVATION

NORTH

T. 32 N., R. 13 W.
T. 32 N., R. 12 W.

10 | 11 | 12 | 22 | 23 | 24

EST 80.90 | 283 | WEST 80.25 | 282 | WEST 80.25 | 281 | WEST 80.25 | 280 | S 89°57' W 79.94 | 279 | S 89°57' W 79.94 | 278

Plata

+20.40

+49.67

+17.30

+73.50

McDermott Arroyo

Cinder Gulch

7 | 8 | 9

NTY

X I C O

COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma

Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 289 + 35

to

MILE CORNER No. 298

COLORADO AND NEW MEXICO BOUNDARY

The following portion of the Colorado and New Mexico boundary was deemed by Ehud N. Darling, in 1868, to be "impossible to survey," because of the numerous deep gorges and high, rugged cliffs. Darling did compute the bearing and distance from his Terminal Point to his Astronomical Monument No. 10, but until this survey the boundary has not been marked upon the ground.

COLORADO AND NEW MEXICO BOUNDARY

THE DARLING LINE, 290TH MILE TO 313TH MILE

Chains

RETRACEMENT

Thence from Mi. Cor. No. 289 + 35.00 Chs. S. 89° 55' W., on a retracement of the Darling boundary.

685.00 Thence on corrected bearing S. 89° 48' W., on a retracement of the Darling boundary.

1251.42 Darling's Astronomical Monument No. 10 bears N. 47 lks. dist.; on this determination the true line bears S. 89° 51' W.

THE DARLING LINE, 290TH MILE

Chains

ESTABLISHMENT

Thence from Mi. Cor. No. 289 + 35.00 Chs. S. 89° 51' W., continuing the establishment of the 290th mile with new measurement.

Descend 123 ft. over broken head of ravine to point for corner.

8.88 The Carpenter 41st Mi. Cor. bears North, 6.02 chs. dist., an iron post; I remove this monument and obliterate the marks on the two bearing trees.

45.00 Point for the 290th Mi. Cor.

Set ● red brass tube, 4 ins. diam., 36 ins. long, 4 ins. in the ground on bed rock, with cap marked Mile Corner No. 290, 1868-1925, and build a mound of stone and earth 6 ft. at the base around the monument;

from which

A cedar, 24 ins. diam., bears N. 53½° W., 17 lks. dist., mkd. COLO 290 M BT.

A cedar, 14 ins. diam., bears S. 36½° W., 29 lks. dist., mkd. NM 290 M BT.

THE DARLING LINE, 291ST MILE

ESTABLISHMENT

Thence from the 290th Mi. Cor. S. 89° 51' W., on an establishment of the 291st mile.

Descend 525 ft., through dense cedar and pinon timber.

11.98 E. ledge of NE. fork of Barker Canon; begin abrupt descent of 400 ft.

28.07 Bottom of descent; ascend 24 ft.

31.30 Top of ascent; descend 84 ft. to point for corner.

43.80 The Carpenter 40th Mi. Cor. bears North, 6.27 chs. dist., an iron post; I remove this monument.

73.01 Thence over bottom of NE. fork of Barker Canon.

80.00 The point for the 291st Mi. Cor. falls on the side of a low spur between two hillside washes; I did not establish this corner.

THE DARLING LINE, 292ND MILE

Chains

ESTABLISHMENT

S. 89° 51' W., on an establishment of the 292nd mile.
Ascend 10 ft. to point for monument.

0.90 Top of low spur between two hillside washes.
Set a tablet in sandstone ledge outcrop, marked Mile Corner No. 291 + 0.90 Chs., 1868-1925;
from which
A cedar, 8 ins. diam., bears N. 44½° W., 43 lks. dist., mkd. W. COLO BT.
A cedar, 14 ins. diam., bears S. 43½° W., 48 lks. dist., mkd. W. NM BT.
Build a mound of stone, 4 ft. base, 3 ft. high, 5 ft. west of monument.

3.33 Begin steep ascent of 498 ft. on E. slope over boulders, through scattering cedar and pinon timber.

19.60 Top of rim, near S. point of mesa, bears N. and S.

26.30 Top of rim, bears NW. and SE.; descend 384 ft. over SW. slope.

30.38 The Carpenter 39.167 Mi. Cor. bears North, 6.42 chs. dist.; an iron post; I remove this monument.

58.60 Thence over bottom of gulch, descend 79 ft. to point on E. slope.

67.90 Set a red brass tube, 3.5 ins. diam., 36 ins. long, 34 ins. in the ground to solid rock, with cap marked Mile Corner No. 291 + 67.90 Chs., 1868-1925, and build a mound of stone, 5 ft. base, to top and around the monument;
from which
A cross on a sandstone boulder, 10x6x4 ft. high, bears N. 20½° E., 18 lks. dist., mkd. BO.
A cross on a sandstone boulder, 10x5x4 ft. high, bears S. 34° W., 16 lks. dist., mkd. BO.
The monument stands north, 85 lks. dist., from a sandstone boulder 20x20x20 ft. high.
Ascend 443 ft. to a point in 293rd mile.

80.00 The point for the 292nd Mi. Cor. falls on steep SE. slope, under rim rock, and among large boulders; I did not establish this corner.

THE DARLING LINE, 293RD MILE

Chains

ESTABLISHMENT

S. 89° 51' W., on an establishment of the 293rd mile.
Ascend to top of rim rocks.

2.80 Top of steep ascent; rim rock bears N. and S.; thence over S. point of ridge, through dense cedar and pinon timber.
Descend 17 ft. to wall of canon.

6.30 Rim rock, bears N. and S.; E. wall of Barker Canon; thence by triangulation, from rim rock to rim rock, across canon.

32.14 Arroyo, in NE. fork of canon.

38.80 Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 292 + 38.80 Chs. 1868-1925.
No bearing trees or objects available.
Monument stands in valley land between two forks of Barker Canon.

45.69 The Carpenter 38th Mi. Cor. bears North, 6.69 chs. dist.; an iron post; I remove this monument.

48.74 Arroyo, in NW. fork of canon; abrupt ascent to point for corner.

80.00 The point for the 293rd Mi. Cor. falls on steep E. slope under rim rock and among large boulders. I did not establish this corner.

THE DARLING LINE, 294TH MILE

ESTABLISHMENT

S. 89° 51' W., on an establishment of the 294th mile.
Ascend over steep E. slope to top of rim rock on W. wall of canon.

1.45 Enter dense cedar and pinon timber.

2.50 Set a red brass tube, 3.5 ins. diam., 36 ins. long, 12 ins. in the ground to solid rock, with cap marked Mile Corner No. 293 + 2.50 Chs., 1868-1925, and build a mound of stone and earth, 5 ft. base, around the monument;
from which
A cedar, 14 ins. diam., bears N. 42½° E., 19 lks. dist., mkd. WP COLO BT.
A cedar, 6 ins. diam., bears S. 12½° E., 56 lks. dist., mkd. WP NM BT.

Chains

THE DARLING LINE, 294TH MILE

Monument stands on W. rim of NW fork of Barker Canon
Ascend 30 ft.

18.37 Top of ascent; descend 71 ft.

34.33 Thence over broken ground; descend 32 ft. to point for corner.

50.24 The Carpenter 37th Mi. Cor. bears North, 6.79 chs. dist.; an iron post; I remove this monument and obliterate the marks on the three bearing trees.

62.55 Unimproved road and stock driveway, bears NW. and SE.

63.10 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 293 + 63.10 Chs., 1868-1925, and build a mound of earth around the monument.

from which

A cedar, 18 ins. diam., bears N. 77½ W., 63 lks. dist., mkd. WP COLO BT.

A cedar, 6 ins. diam., bears S. 33½ W., 44 lks. dist., mkd. WP NM BT.

80.00 Point for the 294th Mi. Cor.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 294, 1868-1925, and build a mound of earth around the monument.

from which

A cedar, 36 ins. diam., bears N. 73½ E., 78 lks. dist., mkd. COLO 294 M BT.

A cedar, 14 ins. diam., bears S. 67½ W., 82 lks. dist., mkd. NM 294 M BT.

THE DARLING LINE, 295TH MILE

ESTABLISHMENT

S. 89° 51' W., on an establishment of the 295th mile.
Descend 106 ft. to point for corner.

47.09 Ravine, course NW.

50.56 The Carpenter 36th Mi. Cor. bears North, 6.77 chs. dist., an iron

Chains

THE DARLING LINE, 295TH MILE

post. I remove this monument and obliterate the marks on the two bearing trees.

80.00 Point for the 295th Mi. Cor.

Construct a concrete monument, in a form 8x14x36 ins., set 25 ins. in the ground, with tablet seated in the top marked Mile Corner No. 295, 1868-1925, and build a mound of earth around the monument;

from which

A cedar, 18 ins. diam., bears N. 54½ W., 67 lks. dist., mkd. COLO 295 M BT.

A cedar, 16 ins. diam., bears S. 27½ W., 67 lks. dist., mkd. NM 295 M BT.

THE DARLING LINE, 296TH MILE

ESTABLISHMENT

S. 89° 51' W., on an establishment of the 296th mile.

Descend 145 ft. to point for corner.

50.29 The Carpenter 35th Mi. Cor. bears North, 6.57 chs. dist.; an iron post; I remove this monument and obliterate the marks on the two bearing trees.

50.41 Ravine, course SW.

58.35 Same ravine, course NW.

80.00 Point for the 296th Mi. Cor.

Set a rock brass tube, 3.5 ins. diam., 36 ins. long, 18 ins. in the ground on bed rock, with cap marked Mile Corner No. 296, 1868-1925, and build a mound of stone and earth, 5 ft. base, around the monument;

from which

A cedar, 10 ins. diam., bears N. 9½ W., 81 lks. dist., mkd. COLO 296 M BT.

A cedar, 14 ins. diam., bears S. 14½ W., 30 lks. dist., mkd. NM 296 M BT.

The Darling Line, 297th Mile

Chains

ESTABLISHMENT

S. 89° 51′ W., on an establishment of the 297th mile.
Descend 20 ft. over broken ground to point for corner.

51.66 The Carpenter 34th Mi. Cor. bears North, 6.45 chs. dist.; an iron post; I remove this monument and obliterate the marks on the two bearing trees.

53.86 Ravine, course S.

80.00 Point for the 297th Mi. Cor.
Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 297, 1868-1925, and build a mound of stone and earth, 3 ft. base, around the monument;
from which
A cedar, 10 ins. diam., bears N. 39¼° E., 30 lks. dist., mkd. COLO 297 M BT.
A cedar, 10 ins. diam., bears S. 30¾° W., 51 lks. dist., mkd. NM 297 M BT.

The Darling Line, 298th Mile

ESTABLISHMENT

S. 89° 51′ W., on an establishment of the 298th mile.
Descend 105 ft., through dense cedar and pinon timber.

30.73 Thence over broken ground; descend 12 ft. to point for corner.

43.00 Leave cedar and pinon; enter sage brush.

50.55 The Carpenter 33rd Mi. Cor. bears North, 6.49 chs. dist.; an iron post; I remove this monument.

58.00 Leave sage brush; enter cedar and pinon timber.

80.00 Point for the 298th Mi. Cor.
Set a red brass tube, 3.5 ins. diam., 36 ins. long, 12 ins. in the ground to solid rock, with cap marked Mile Corner No. 298, 1868-1925, and build a mound of stone and earth, 5 ft. base, around the monument;
from which
A cedar, 20 ins. diam., bears N. 12¼° E., 57 lks. dist., mkd. COLO 298 M BT.
A cedar, bears S. 40½° W., 28 lks. dist., mkd. NM 298 M BT.

C O L O R A D O

MONTEZUMA COUNTY

LA PLATA COUN

UTE

MOUNTAIN

INDIAN

6500

6700

6400

6200

6300

6600

298 S 89°51' W 80.00 297 S 89°51' W 80.00 296 S 89°51' W 80.00 295 S 89°51' W 80.00 294 S 89°51' W 80.00 293 S 89°51' W (80.00

+63.10

+2.50

+39.80

Bartlett

Cond

UTE

MOUNTAIN

INDIAN

SAN JUAN COUNTY

N E W M E X I C O

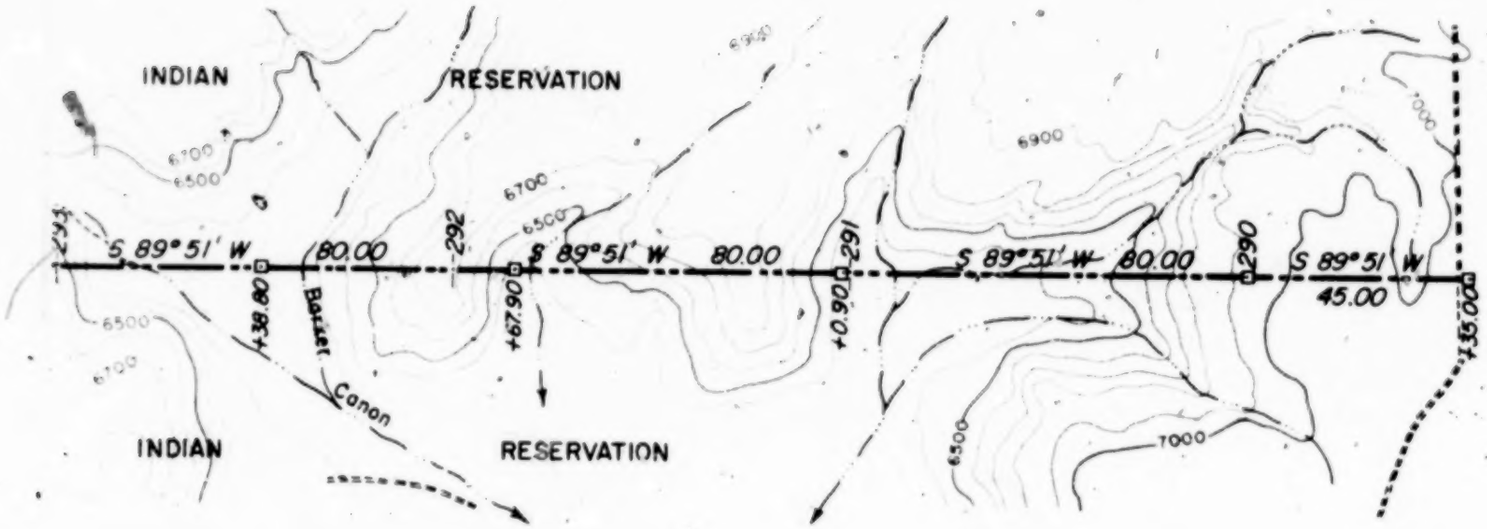
SCALE

0 10 20 30 40 80

40 Chains to the inch

) O

.A PLATA COUNTY



C O

COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D. Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma
Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 298

to

MILE CORNER No. 306

COLORADO AND NEW MEXICO BOUNDARY

The following portion of the Colorado and New Mexico boundary was deemed by Ehud N. Darling, in 1868, to be "impossible to survey," because of the numerous deep gorges and high, rugged cliffs. Darling did compute the bearing and distance from his Terminal Point to his Astronomical Monument No. 10, but until this survey, the boundary has not been marked upon the ground.

COLORADO AND NEW MEXICO BOUNDARY

The Darling Line, 290th Mile to 313th Mile

Chains

RETRACEMENT

Thence from Mi. Cor. No. 289 + 35.00 Chs. S. 89° 55′ W., on a retracement of the Darling boundary.

685.00 Thence on corrected bearing S. 89° 48′ W., on a retracement of the Darling boundary.

1251.42 Darling's Astronomical Monument No. 10 bears N. 47 lks. dist.; on this determination the true line bears S. 89° 51′ W.

The Darling Line, 299th Mile

Chains *ESTABLISHMENT*

S. 89° 51′ W., on an establishment of the 299th mile.
Descend gradually through cedar and pinon timber, descending 55 ft. to point for corner.

51.27 The Carpenter 32nd Mi. Cor. bears North, 6.49 chs. dist.; an iron post; I remove this monument.

80.00 Point for the 299th Mi. Cor.
Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 299, 1868-1925:
from which
A cedar, 24 ins. diam., bears N. 10¾° W., 95 lks. dist., mkd. COLO 299 M BT.
A cedar, 24 ins. diam., bears S. 39° E., 28 lks. dist., mkd. NM 299 M BT.

The Darling Line, 300th Mile

ESTABLISHMENT

S. 89° 51′ W., on an establishment of the 300th mile.
Descend 28 ft., through cedar and pinon timber.

30.62 Top of cliff; descend 614 ft. to bottom of canon.

49.73 The Carpenter 31st Mi. Cor. bears North, 6.29 chs. dist.; an iron post; I remove this monument.

52.00 Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 299 + 52.00 Chs., 1868-1925, and build a mound of stone around the monument:
from which
A cross on ledge outcrop, bears N. 61° E., 160 lks. dist., mkd. BO.
A cedar, 10 ins. diam., bears S. 4½° E., 102 lks. dist., mkd. WP NM BT.
Monument stands in bottom of the NW. fork of Salt Creek Wash Canon.

55.40 Arroyo, in Salt Creek Wash Canon, course S. 30° W.
Ascend 675 ft. to top of spur in next mile.

Chains

THE DARLING LINE, 300TH MILE

80.00 Point for the 300th Mi. Cor.
Set a red brass tube, 3.5 ins. diam., 36 ins. long, 12 ins. in the ground to bed rock, with cap marked Mile Corner No. 300, 1868-1925, and build a mound of stone and earth, 5 ft. base, around the monument;
from which
A cedar, 10 ins. diam., bears N. 25° W., 46 lks. dist., mkd. COLO 300 M BT.
A pinon, 8 ins. diam., bears S. 30½° W., 25 lks. dist., mkd. NM 00 M BT.

THE DARLING LINE, 301ST MILE

ESTABLISHMENT

S. 89° 51′ W., on an establishment of the 301st mile.

13.00 Top of spur, bears S.; descend 575 ft. to gorge.

18.49 The Carpenter 30.408 Mi. Cor. bears North, 6.33 chs. dist. (computed); an iron post, on canon rim rock; I remove this monument.

39.92 Bottom of descent; ascend 588 ft., through scattering cedar and pinon timber, out of deep, rugged gorge, surrounded by high rim rock.
Set a red brass tube, 3.5 ins. diam., 36 ins. long, 12 ins. in the ground to solid rock, with cap marked Mile Corner No. 300 + 40.00 Chs., 1868-1925, and build a mound of stone and earth, 5 ft. base, around the monument;
from which
A cedar, 8 ins. diam., bears N. 27½° E., 39 lks. dist., mkd. WP COLO BT.
A cedar, 8 ins. diam., bears S. 56° E., 38 lks. dist., mkd. WP NM BT.
Monument stands on a bench in E. central part of large rugged "bowl" surrounded by high rim rock.

80.00 Point for the 301st Mi. Cor.
Set a red brass tube, 3.5 ins. diam., 36 ins. long, 8 ins. in the ground to bed rock, with cap marked Mile Corner No. 301, 1868-1925, and build a mound of stone and earth, 4 ft. base, around the monument;

Chains

THE DARLING LINE, 301ST MILE

from which

A cedar, 8 ins. diam., bears N. 10¼° E., 19 lks. dist., mkd. COLO 301 M BT.

A cedar, 20 ins. diam., bears S. 4½° E., 48 lks. dist., mkd. NM 301 M BT.

THE DARLING LINE, 302ND MILE

ESTABLISHMENT

S. 89° 51′ W., on an establishment of the 302nd mile.

Descend 12 ft. gradually over broken ground on high mesa to point for corner.

51.13 The Carpenter 29th Mi. Cor. bears North, 6.22 chs. dist.; an iron post; I remove this monument.

80.00 Point for the 302nd Mi. Cor.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 8 ins. in the ground to bed rock, with cap marked Mile Corner No. 302, 1868-1925, and build a mound of stone and earth, 5 ft. base, around the monument;

from which

A cedar, 24 ins. diam., bears N. 19° W., 57 lks. dist., mkd. COLO 302 M BT.

A cedar, 16 ins. diam., bears S. 74½° W., 30 lks. dist., mkd. NM 302 M BT.

Monument stands near the edge of a canon, bearing N. 60° E.

THE DARLING LINE, 303RD MILE

ESTABLISHMENT

Thence from the 302nd Mi. Cor. S. 89° 51′ W., on an establishment of the 303rd mile.

Ascend 45 ft. across canon and through cedar and pinon timber.

2.20 Canon, bears N. 60° E.

11.75 Descend 123 ft.

35.58 E. rim of deep rocky canon; ascend 83 ft. over canon to W. rim.

Chains THE DARLING LINE, 303RD MILE

37.67 The Carpenter 28.175 Mi. Cor. bears North, 6.22 chs. dist.; an iron post; I remove this monument. No bearing trees.

45.29 Intersect the west boundary of the Ute Mountain Indian Reservation as surveyed by C. R. Burt, U. S. Surveyor, in 1914.
The initial point of the survey bears North, 6.28 chs. dist.; an iron post, 3 ins. diam., firmly set in mound of stone, with brass cap marked and witnessed as described in the official record; I did not disturb this monument.

49.97 W. rim of canon, bears N.; ascend 50 ft. on high mesa, through cedar and pinon timber to point for corner.

80.00 Point for the 303rd Mi. Cor.
Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, marked Mile Corner No. 303, 1868-1925, and build a mound of earth, 3 ft. base, 6 ins. high, around the monument;
from which
A cedar, 6 ins. diam., bears N. 42½° W., 30 lks. dist., mkd. COLO 303 M BT.
A cedar, 14 ins. diam., bears S. 6° W., 39 lks. dist., mkd. NM 303 M BT.

THE DARLING LINE, 304TH MILE

ESTABLISHMENT

Thence from a point 1 chain S. of the 303rd Mi. Cor. S. 89° 51′ W., on an establishment of the 304th mile.
Ascend 13 ft.

5.00 Top of high ridge, bears NE. and SW.; descend 91 ft.

22.12 E. rim of deep rocky canon; ascend 100 ft. across canon.

26.00 Bottom of canon, 150 ft. deep, course NE.

35.65 Edge of shallow basin, course NE.

46.60 Descend 250 ft.

52.70 North, 1 chain to the true line.
Set a tablet in sandstone rim rock, marked Mile Corner No. 303 + 52.70 Chs., 1868-1925;

hains

THE DARLING LINE, 304TH MILE

from which

A cedar, 12 ins. diam., bears N. 03¼° E., 24 lks. dist., mkd. WP COLO BT.

A cedar, 24 ins. diam., bears S. 73½° E., 68 lks. dist., mkd. WP NM BT.

Raise a mound of stone, 3 ft. base, 3 ft. high, 4 ft. N. of tablet.

53.12 North, 1 chain to the true line; thence the Carpenter 27.015 Mi. Cor. bears North, 6.27 chs. dist.; an iron post; I remove this monument.

78.00 Ascend 184 ft. to a point in the 305th mile.

80.00 North, 1 chain to the true line; the point for the 304th Mi. Cor. falls in a deep wide gorge; I did not establish this corner.

THE DARLING LINE, 305TH MILE

ESTABLISHMENT

Thence from a point 1 chain S. of the point for the 304th Mi. Cor. S. 89° 51′ W., on an establishment of the 305th mile.

26.87 Spur and E. rim of canon, slopes NE.; descend 182 ft.

40.40 Ascend 413 ft. to a point in the 306th mile.

61.32 The Carpenter 25.912 Mi. Cor. has become obliterated.

75.20 North, 1 chain to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 18 ins. in the ground, with cap marked Mile Corner No. 304 + 75.20 Chs., and build a mound of stone and earth, 5 ft. base, around the monument;

from which

A cedar, 8 ins. diam., bears N. 59½° E., 78 lks. dist., mkd. WP COLO BT.

A cedar, 6 ins. diam., bears S. 27¼° W., 55 lks. dist., mkd. WP NM BT.

Monument stands on top of ridge on high mesa.

76.12 Top of rim rock, E. wall of deep wide gorge.

80.00 North, 1 chain to the true line; the point for the 305th Mi. Cor. falls on steep rocky slope; I did not establish this corner.

THE DARLING LINE, 306TH MILE

Chains *ESTABLISHMENT*

Thence from a point 1 chain S. of the point for the 305th Mi. Cor. S. 89° 51′ W., on an establishment of the 306th mile.

27.80 Descend 13 ft. gradually over rocky, broken ground through cedar and pinon timber, to point for corner.

55.04 North, 1 chain to the true line; thence the Carpenter 25th Mi. Cor. bears North, 6.65 chs. dist.; an iron post; I remove this monument.

60.08 North, 1 chain to the true line; thence the U. S. Coast and Geodetic Survey station "Dove," bears South, 23.39 chs. dist.; a sandstone, 8x8x10 ins. above ground with tablet marked "Dove," 1936.

80.00 North, 1 chain to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 12 ins. in the ground on bed rock, with cap marked Mile Corner No. 306, 1868-1925, and build a mound of stone and earth, 4 ft. base, around the monument;

from which

A cedar, 12 ins. diam., bears N. 11° E., 65 lks. dist., mkd. COLO 306 M BT.

A cedar, 18 ins. diam., bears S. 52¾° E., 18 lks. dist., mkd. NM 306 M BT.

Monument stands on western-most ridge of high mesa.

C O L O R A D O

MONTEZUMA COUNTY

UTE MOUNTAIN INDIAN RESERVATION

306 S 89° 51' W 80.00 305 +75.20 S 89° 51' W 80.00 304 +52.70 S 89° 51' W 80.00 303 S 89° 51' W 80.00 302 S 89° 51' W 80.00 301 S 89° 51' W 80

Burr Initial Point

+40.00

USC & GS "DOVE"

NAVAJO INDIAN RESERVATION

UTE MOUNTAIN

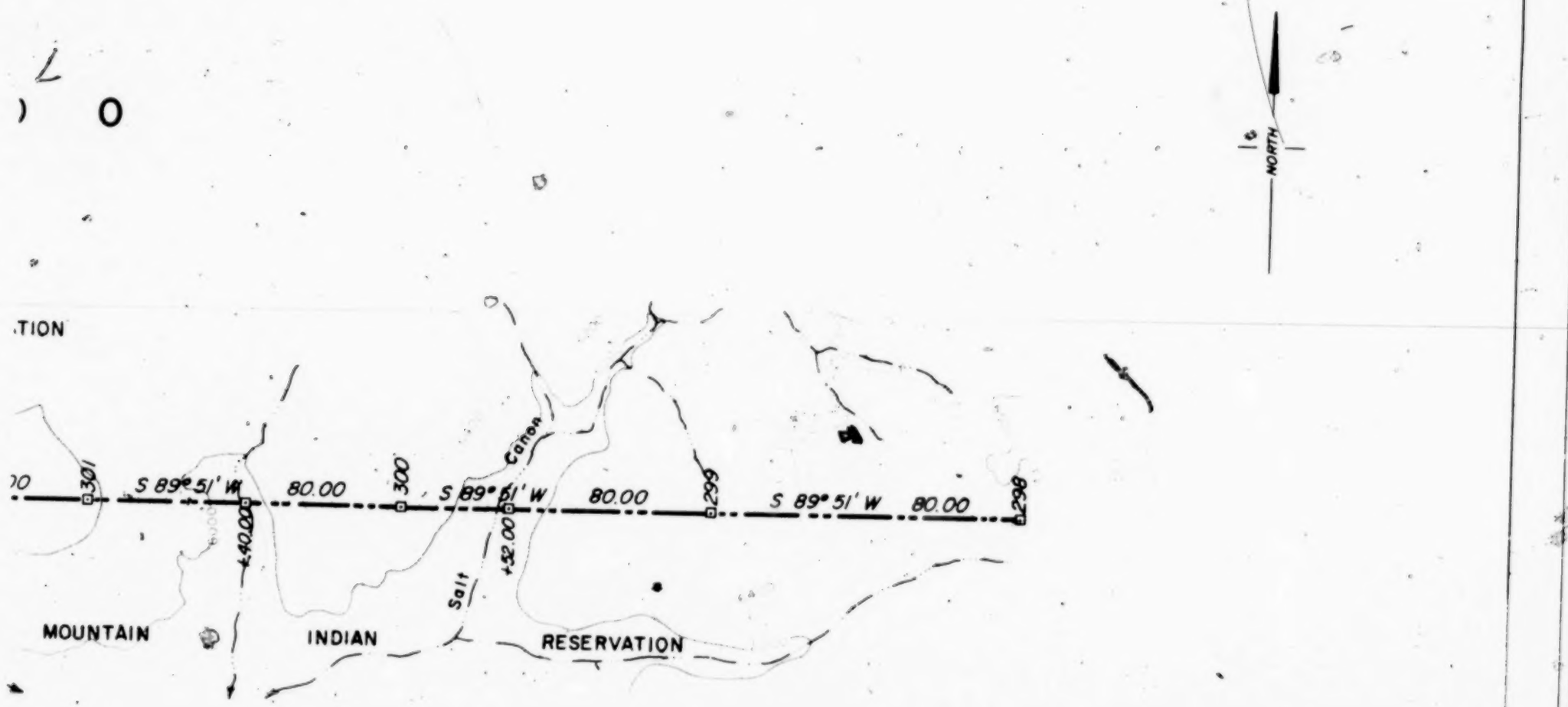
SAN JUAN COUNTY

N E W M E X I C O

SCALE

0 10 20 30 40 80

40 Chains to the inch



COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma

Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 306

to

MILE CORNER No. 313 + 17.08

COLORADO AND NEW MEXICO BOUNDARY

The following portion of the Colorado and New Mexico boundary was deemed by Ehud N. Darling, in 1868, to be "impossible to survey," because of the numerous deep gorges and high, rugged cliffs. Darling did compute the bearing and distance from his Terminal Point to his Astronomical Monument No. 10, but until this survey, the boundary has not been marked upon the ground.

COLORADO AND NEW MEXICO BOUNDARY

The Darling Line, 290th Mile to 313th Mile

Chains

RETRACEMENT

Thence from Mi. Cor. No. 289 + 35.00 Chs. S. 89° 55′ W., on a retracement of the Darling boundary.

785.00 Thence on corrected bearing S. 89° 48′ W., on a retracement of the Darling boundary.

1251.42 Darling's Astronomical Monument No. 10 bears N. 47 lks. dist.; on this determination the true line bears S. 89° 51′ W.

THE DARLING LINE, 307TH MILE

Chains *ESTABLISHMENT*

Thence from a point 1 chain S. of the 306th Mi. Cor. S. 89° 51' W., on an establishment of the 307th mile.

Descend 38 ft. over nearly level NW. point of high mesa, through cedar and pinon timber.

9.98 North, 1 chain to the true line; rim rock, top of high wall on westernmost ridge of high mesa.

Set a tablet in sandstone ledge, marked Mile Corner No. 306 + 9.98 Chs., 1868-1925;

from which

A cedar, 12 ins. diam., bears N. 70¼° E., 11.5 lks. dist., mkd. WP, COLO BT.

Raise a mound of stone, 3 ft. base, 3 ft. high, 3 ft. E. of tablet.

10.16 Descend 913 ft. to a point in the 308th mile.

55.08 North, 1 chain to the true line; thence the point for the Carpenter 24th Mi. Cor. bears North, 7.32 chs. dist.; search E. and W. but unable to find any trace of the monument.

80.00 North, 1 chain to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 307, 1868-1925, and build a mound of stone and earth, 4 ft. base, around the monument.

No bearing trees or objects available.

THE DARLING LINE, 308TH MILE

ESTABLISHMENT

Thence from a point 1 chain S. of the 307th Mi. Cor. S. 89° 51' W., on an establishment of the 308th mile.

3.20 Descend 111 ft. across lower mesa, through scattering cedar and pinon timber.

8.20 E. side of fork of unimproved roads; roads bear S. 30° E., N. 60° W., and N. 30° W.

North, 1 chain to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 307 + 8.20 Chs.,

Chains

THE DARLING LINE, 308TH MILE

1868-1925, and build a mound of stone and earth around the monument.

No bearing trees or objects available.

52.93 Picture Rock, bears N. 46° 45' E.

55.00 North, 1 chain to the true line; thence from points 7.40 and 8.40 chs. North, search E. and W., 10 to 15 chs. dist.; unable to find any trace of the Carpenter 23rd Mi. Cor.

65.09 Descend 48 ft. over deep canon, walled in by rim rock, to a point in the 309th mile.

80.00 North, 1 chain to the true line; the point for the 308th Mi. Cor. falls in deep rocky canon; I did not establish this corner.

THE DARLING LINE, 309TH MILE

ESTABLISHMENT

Thence from a point 1 chain S. of the point for the 308th Mi. Cor. S. 89° 51' W., on an establishment of the 309th mile.

Ascend left wall of canon, bearing N. 80° W.

11.00 North, 1 chain to the true line.

Set a tablet in top of sandstone ledge, marked Mile Corner No. 308 + 11.00 Chs., 1868-1925;

from which

A cedar, 10 ins. diam., bears N. 45° W., 57 lks. dist., mkd. WP COLO BT.

A cedar, 6 ins. diam., bears S. 47° E., 61 lks. dist., mkd. WP NM BT.

Raise a mound of stone, 4 ft. base, 2 ft. high, 9 lks. E. of tablet.

Monument located on W. side of deep canon; descend 141 ft.

19.46 Picture Rock, bears N. 59° 35' E.

77.60 Ascend 26 ft. to top of spur in 310th mile.

80.00 North, 1 chain to the true line; the point for the 309th Mi. Cor. falls in deep rocky canon; I did not establish this corner.

THE DARLING LINE, 310TH MILE

Chains *ESTABLISHMENT*

Thence from a point 1 chain S. of the point for the 309th Mi. Cor. S. 89° 51′ W., on an establishment of the 310th mile.

Ascend to top of spur.

5.00 North, 1 chain to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 3 ins. in the ground to bed rock, with cap marked Mile Corner No. 309 + 5.00 Chs., 1868-1925, and build a mound of stone, 5 ft. base, 2.5 ft. high, around the monument;

from which

A pinon, 10 ins. diam., bears N. 33° W., 37 lks. dist., mkd. WP COLO BT.

A cedar, 14 ins. diam., bears S. 65° E., 42 lks. dist., mkd. WP NM BT.

Monument stands on top of spur; descend 187 ft.

26.20 Wash, course SW.

27.50 North, 1 chain to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 309 + 27.50 Chs., 1868-1925, and build a mound of stone, 3 ft. base, around the monument.

No bearing trees or objects available.

27.90 Road, bears NE and SW.

57.60 The Carpenter 20.95 Mi. Cor.: a pile of stone, none marked, no iron post; I obliterate the remnants of this monument.

Ascend 275 ft.

65.90 Thence over gently rolling mesa, with scattering cedar and pinon timber; ascend 15 ft. to point for corner.

80.00 North, 1 chain to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 310, 1868-1925, and build a mound of stone around the monument;

from which

A cedar, 10 ins. diam., bears N. 42¾° W., 88 lks. dist., mkd. COLO 310 M BT.

Chains

THE DARLING LINE, 310TH MILE

A cedar, 16 ins. diam., bears S. 40° E., 75 lks. dist., mkd. NM 310 M BT.

THE DARLING LINE, 311TH MILE

ESTABLISHMENT

Thence from a point 1 chain S. of the 310th Mi. Cor. S. 89° 51½ W., on an establishment of the 311th mile.

Over gently rolling mesa, through scattering cedar and pinon timber; descend 37 ft. to rim of mesa.

32.56 E. side of cove in the S. rim of mesa.

46.40 North, 1 chain to the true line.

Set a tablet in sandstone outcrop, marked Mile Corner No. 310 + 46.40 Chs., 1868-1925;

from which

A cedar, 12 ins. diam., bears N. 75° E., 70 lks. dist., mkd. WP COLO BT.

A cedar, 6 ins. diam., bears S. 54¼° E., 14 lks. dist., mkd. WP NM BT.

Raise a mound of stone, 3 ft. base, 1.5 ft. high, 3 ft. W. of tablet.

Monument located on north side of main canon, on a cliff on the west side of large cove.

53.69 North, 1 chain to the true line; thence the Carpenter 20th Mi. Cor. and Astronomical Monument No. 1 bears North, 7.70 chs. dist.; a sandstone, 12x12x36 ins., firmly set and dressed on all four sides, marks obliterated; I destroy the monument and obliterate the marks on the three bearing trees.

64.60 North, 1 chain to the true line.

Set a tablet in sandstone outcrop, marked Mile Corner No. 310 + 64.60 Chs., 1868-1925;

from which

A cedar, 10 ins. diam., bears N. 55° W., 33 lks. dist., mkd. WP COLO BT.

A cedar, 6 ins. diam., bears S. 77½° E., 51 lks. dist., mkd. WP NM BT.

Raise a mound of stone, 3 ft. base, 1.5 ft. high, 3 ft. E. of the tablet.

Chains

THE DARLING LINE, 311TH MILE

Monument stands on west rim of high mesa, bearing NW. and SE.; abrupt descent.

80.00 North, 1 chain to the true line; the point for the 311th Mi. Cor. falls on side of rocky cliff; I did not establish this monument.

THE DARLING LINE, 312TH MILE

ESTABLISHMENT

Thence from a point 1 chain S. of the point for the 311th Mi. Cor. S. 89° 51′ W., on an establishment of the 312th mile.

14.50 North, 1 chain to the true line; thence from a point 8.50 chs. N. of the true line S. 89° 51′ W. continuing the establishment of the 312th mile.

16.10 South, 8.50 chs. to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 311 + 16.10 Chs., 1868-1925, and build a mound of stone, 3 ft. base, around the monument.

No bearing trees or objects available.

54.20 South, 8.50 chs. to the true line; thence the Carpenter 19th Mi. Cor. bears North, 7.70 chs. dist.; an iron post; I remove this monument.

80.00 South, 8.50 chs. to the true line; the point for the 312th Mi. Cor. falls on steep N. slope below high mesa; I did not establish this corner.

THE DARLING LINE, 313TH MILE

ESTABLISHMENT

Thence from a point 8.50 chs. N. of the point for the 312th Mi. Cor. S. 89° 51′ W., on an establishment of the 313th mile.

21.40 South, 8.50 chs. to the true line.

Set a red brass tube, 3.5 ins. diam., 36 ins. long, 24 ins. in the ground, with cap marked Mile Corner No. 312 + 21.40 Chs.,

Chains

THE DARLING LINE, 313TH MILE

1868-1925, and build a mound of stone and earth, 3 ft. at the base, around the monument.

No bearing trees or objects available.

Monument stands on ridge sloping north, at foot of high mesa on south.

54.47 South, 8.50 chs. to the true line; thence the Carpenter 18th Mi. Cor. bears North, 7.64 chs. dist.; an iron post; I remove this monument.,

114.34 South, 8.50 chs. to the true line.

Set a tablet in sloping rim rock, on northern-most edge of mesa, marked Mile Corner No. 313, 1868-1925.

No bearing trees or objects available.

Raise a mound of stone, 2 ft. base, 2 ft. high, 3 ft. S. of tablet.

THE DARLING LINE, 314TH MILE

ESTABLISHMENT

Thence from a point 8.50 chs. N. of the 313th Mi. Cor. S. 89° 51' W., on an establishment of the 314th mile.

2.52 South, 8.50 chs. to the true line.

Set a tablet in the top of rim rock, marked Mile Corner No. 313 + 2.52 Chs., 1868-1925.

No bearing trees or objects available.

Raise a mound of stone, 2 ft. base, 2 ft. high N. of tablet.

Monument stands on extreme western point of high mesa, overlooking boundary line westward to the corner of four States: Arizona, Colorado, New Mexico, and Utah.

17.08 South, 8.50 chs. to the true line.

Darling's Astronomical Monument No. 10; a sandstone boulder, 10x18x9 ft. high, mkd. Colorado on N., and 1868 on E., cross in top of the boulder, other marks obliterated.

In center of cross

Set a tablet, marked Mile Corner No. 313 + 17.08 Chs., 1868-1925; from which

A large boulder, bears N. 34° W., 140 lks. dist.

A large boulder, bears S. 34° W., 140 lks. dist.

Monument stands 2.90 chs. E. of the foot of a steep slope below the NW. point of the western-most high cliff of the Mesa Verde.

C O L O R A D O

MONTEZUMA COUNTY

ASTRONOMICAL MON. No. 10

S 89° 51' W 17.08

+17.08 313 +2.52

S 89° 51' W 114.34

+21.40 312

S 89° 51' W 80.00

+16.10 311

S 89° 51' W 80.00

+64.60 +46.40 310

S 89° 51' W 80.00

+27.50 309 +5.00

S 89° 51' W 80.00

+11.00 308

T. 32 N., R. 17 W.

20 21 22 23 24

UTE MOUNTAIN INDIAN RESERVATION

NAVAJO INDIAN RESERVATION

SAN JUAN COUNTY

N E W M E X I C O

SCALE

0 10 20 30 40 80

40 Chains to the inch

D O

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COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S. 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph B. Thoma
Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 313 + 17.08

to

MILE CORNER No. 322

THE DARLING LINE, 314TH MILE

Chains *RETRACEMENT*

N. 89° 54′ W., along a trial line, retracing the Darling boundary on a transit line describing the secant, which starts from a point 0.85 lks. S. of Darling's Astronomical Monument No. 10, and bears N. 89° 55.5′ W.

62.92 N., 4 lks. to the trial line; the 314th Mi. Cor. has become obliterated.

Deflect 0° 4′ N., and continue on a transit line describing the secant, which bears N. 89° 52′ W.

142.92 On the trial line; the 315th Mi. Cor. has become obliterated.

222.92 S., 2 lks. to the trial line; the 316th Mi. Cor. has become obliterated.

302.92 S., 3 lks. to the trial line; the 317th Mi. Cor. has become obliterated.

382.92 S., 2 lks. to the trial line; the 318th Mi. Cor. has become obliterated.

462.92 On the trial line; the 319th Mi. Cor. has become obliterated.

542.92 N., 4 lks. to the trial line; the 320th Mi. Cor. has become obliterated.

Deflect 0° 4′ N., and continue on a transit line describing the secant, which bears N. 89° 52′ W.

563.54 Darling's bearing objects:

Mountains on W. side of Rio Colorado, bears N. 50° 45′ W. (Record: N. 51° W.)

West end of mountains, bears N. 32° 45′ W. (Record: N. 33° W.)

Abutment, bears N. 59° E. (Record: N. 59° E.)

Perpendicular cliff, bears S. 74° 45′ E. (Record: S. 75½° E.)

Perpendicular cliff, bears S. 73° E. (Record: S. 72½° E.)

Shiprock, bears S. 6° 45′ E. (Record: S. 7° E.)

Conical peak on Tunichi Mountains, bears S. 10° 15′ W. (Record: S. 10° W.)

Conical peak on Tunichi Mountains, bears S. 16° 45′ W. (Record: S. 13½° W.)

Highest point on mountain range, bears S. 53° W. (Record: S. 52½° W.)

Chains

THE DARLING LINE, 314TH MILE

Conical peak on Sierra La Platte, bears N. 36 30' E.
(Record: N. 37 E.)

622.92 On the trial line: the 321st Mi. Cor. has become obliterated.

702.92 S., 2 lks. to the trial line; the 322nd Mi. Cor. has become obliterated.

782.92 S., 3 lks. to the trial line; the 323rd Mi. Cor. has become obliterated.

862.92 S., 2 lks. to the trial line; the 324th Mi. Cor. has become obliterated.

942.92 On the trial line; the 325th Mi. Cor. has become obliterated.

1022.92 N., 4 lks. to the trial line; the 326th Mi. Cor. has become obliterated.

Deflect 0 4' N., and continue on a transit line describing the secant, which bears N. 89 52' W.

1102.92 On the trial line; the 327th Mi. Cor. was not established by Darling.

1182.92 S., 2 lks. to the trial line; the 328th Mi. Cor. has become obliterated.

1262.92 S., 3 lks. to the trial line; the 329th Mi. Cor. has become obliterated.

1342.92 S., 2 lks. to the trial line; the 330th Mi. Cor. has become obliterated.

1363.56 S., 1.48 lks. to the trial line; thence the Four Corner Monument bears S. 125,5 lks.; on this determination the true line bears N. 89 57' W.

REESTABLISHMENT

Thence from Darling's Astronomical Monument No. 10, as restored Mi. Cor. 313 + 17.08 Chs. N. 89° 57' W., on a reestablishment of the 314th mile.

Descend 71 ft. to point for the corner.

19.74 The Carpenter 17th Mi. Cor. bears North, 8.00 chs. dist.; an iron post, set under an E. and W. fence near foot of high bluff to SE.; I remove this monument.

Chains

THE DARLING LINE, 314TH MILE

68.00 Construct a concrete monument, in a form 10x24x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 313 + 68.00 Chs., 1868-1925;

from which

A standard U. S. Geological Survey tablet bears N. 51° 31' W., 4 chs. dist., tablet set in E. parapet of concrete culvert, mkd. 5118.

71.62 U. S. Highway 666, from Cortez, Colorado, to Shiprock, New Mexico, bears N. 6½° E. and S. 6½° W.

80.00 Point for the corner; unable to identify Darling's 314th Mi. Cor.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 314, 1868-1925.

No accessories available.

THE DARLING LINE, 315TH MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 315th mile.

Over gently rolling land; ascend 20 ft. to point for corner.

19.68 North, 7.61 chs. dist.; made careful search, unable to find the Carpenter 16th Mi. Cor.

30.80 Road, bears NW. and SE.

77.00 Low ridge, bears N. and S.

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 314 + 77.00 Chs., 1868-1925.

80.00 Point for the cornet; unable to identify Darling's 315th Mi. Cor.; the point falls in low ground; I did not reestablish this corner.

THE DARLING LINE, 316TH MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 316th mile.

Ascend 32 ft. over gently rolling land to point for the corner.

Chains

THE DARLING LINE, 316TH MILE

6.90 Dry wash, 20 ft. wide, course N.

19.62 The Carpenter 15th Mi. Cor. bears North, 7.22 chs. dist.; an iron post; I remove this monument.

80.00 Point for the corner; unable to identify Darling's 316th Mi. Cor. Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 316, 1868-1925.
No accessories available.

THE DARLING LINE, 317TH MILE

REESTABLISHMENT

N. 89 57' W., on a reestablishment of the 317th mile.
Ascend 17 ft. over gently rolling land to the point for corner.

19.68 The Carpenter 14th Mi. Cor. bears North, 6.80 chs. dist.; an iron post; I remove this monument.

80.00 Point for the corner; unable to identify Darling's 317th Mi. Cor. Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 317, 1868-1925.
No accessories available.

THE DARLING LINE, 318TH MILE

REESTABLISHMENT

N. 89 57' W., on a reestablishment of the 318th mile.
Descend 4 ft. over gently rolling land to the point for corner.

5.00 Road, bears NE. and SW.

17.40 Same road, bears NW. and SE.

19.92 The Carpenter 13th Mi. Cor. bears North, 6.37 chs. dist.; an iron post; I remove this monument.

63.50 Road, bears NW. and SE.

80.00 Point for the corner; unable to identify Darling's 318th Mi. Cor. Construct a concrete monument, in a form 8x14x36 ins., set 24 ins.

Chains

THE DARLING LINE, 318TH MILE

in the ground, with tablet seated in the top marked Mile Corner No. 318, 1868-1925.

No accessories available.

THE DARLING LINE, 319TH MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 319th mile.

Descend 92 ft. over rolling land to the point for corner.

20.10 The Carpenter 12th Mi. Cor. bears North, 5.94 lks. dist.; an iron post; I remove this monument.

24.40 Arroyo, 10 lks. wide, 8 ft. deep, course SW.

75.70 Arroyo, 40 lks. wide, course NW.

80.00 Point for the corner; unable to identify Darling's 319th Mi. Cor.; the point falls in low ground subject to erosion; I did not reestablish this corner.

THE DARLING LINE, 320TH MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 320th mile.

Ascend 85 ft. over broken ground to point for corner.

2.00 Construct a concrete monument, in a form 8x14x36 ins., set 12 ins. in the ground on bed rock, with tablet seated in the top marked Mile Corner No. 319 + 2.00 Chs., 1868-1925; construct a concrete base for fill around the monument, and build a mound of stone around the monument.

3.30 Arroyo, 40 lks. wide, course NE.; joins other large wash about 3 chs. NE.

5.00 Road, bears NE. and SW.

20.08 The Carpenter 11th Mi. Cor. bears North, 5.51 chs. dist.; an iron post; I remove this monument.

80.00 Point for the corner; unable to identify Darling's 320th Mi. Cor. Construct a concrete monument, in a form 8x14x36 ins., set 24 ins.

Chains THE DARLING LINE, 320TH MILE

in the ground, with tablet seated in the top marked Mile Corner No. 320, 1868-1925.

No accessories available.

THE DARLING LINE, 321ST MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 321st mile.

Ascend 8 ft. to top of ledge.

9.30 Top of shale ledge, bears NW. and SE.; descend abruptly 73 ft. into deep arroyo.

11.80 Bottom of arroyo, course N.; ascend 81 ft.

17.92 Top of ascent; descend 50 ft.

19.86 The Carpenter 10th Mi. Cor. bears North, 5.09 chs. dist.; an iron post; I remove this monument.

22.10 Deep arroyo, course N.; head approximately 4 chs. S.; ascend 70 ft.

25.53 Top of ascent; descend 33 ft.

27.40 Arroyo, course NE.; head approximately 2 chs. S.; ascend 42 ft.

42.00 Construct a concrete monument, in a form 8x11x18 ins., set 15 ins. in the ground, on a round concrete base, 18 ins. diam., 10 ins. deep, with tablet seated in the top marked Mile Corner No. 320 + 42.00 Chs., 1868-1925.

Descend 4 ft. to ledge.

50.20 Top of shale ledge, bears NW. and E.; descend abruptly 87 ft.

53.00 Arroyo, course N.; ascend 83 ft. to ledge.

59.80 Top of shale ledge, bears N. and S.; descend 69 ft. to arroyo.

61.54 Arroyo, course NW.; ascend 76 ft.

66.00 Top of ascent; descend 43 ft.

70.20 Arroyo, course N.; ascend 16 ft.

71.30 Narrow ridge, bears N. and S.; descend 100 ft.

75.50 Deep arroyo, course N.; ascend 120 ft.

82.25 Top of ascent; descend 113 ft.

Chains

THE DARLING LINE, 321ST MILE

87.87 Arroyo, course N.; ascend 90 ft. to point for corner.

88.80 Point for the corner; unable to identify Darling's 321st Mi. Cor.
The length of the 321st mile becomes 88.80 chs. in order to agree with Darling's station on top of the only ridge from which he could have read bearings to the distant objects recorded in the field notes of his 322nd mile.
The point falls on steep N. slope; I did not establish this corner.

THE DARLING LINE, 322ND MILE

REESTABLISHMENT

N. 89° 57′ W., on a reestablishment of the 322nd mile.
Ascend 55 ft. over steep N. slope.

12.00 High ridge, bears N. and S.
Checked Darling's bearings to distant objects, recorded at his mile station 321 + 12.00 Chs., and close agreement with the record was noted. The comparison has been entered at 563.54 chains. Retracement, 314th mile.
Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 321 + 12.00 Chs., 1868-1925.
Descend 107 ft.

12.21 The Carpenter 9th Mi. Cor. bears North, 4.64 chs. dist.; an iron post; I remove this monument.

25.20 Dry wash, course N.; ascend 12 ft.

26.10 Narrow ridge, bears N. and S.; descend 79 ft.

65.40 Deep arroyo, 1 ch. wide, course N.; ascend 6 ft. to point for corner.

75.20 Conical mound, 40 ft. high, bears North, 2.5 chs. dist.

78.52 North, 93 lks. dist. to a wash.

78.80 North, 74 lks. dist. to a wash.

80.00 Point for the corner; unable to identify Darling's 322nd Mi. Cor.
Set an iron pipe, 3 ins. diam., 48 ins. long, with cap marked Mile Corner No. 322, 1868-1925.

C O L O R A D O

MONTEZUMA COUNTY

UTE MOUNTAIN INDIAN RESERVATION

T. 32 N., R. 19 W.

T. 32 N., R. 18 W.

22 23 24 19 20 21 22

322 N 89°57' W 80.00 321 N 89°57' W 88.80 320 N 89°57' W 80.00 319 N 89°57' W 80.00 318 N 89°57' W 80.00 317 N 89°57' W 80.0

+12.00 +12.00 +2.00

NAVAJO INDIAN RESERVATION

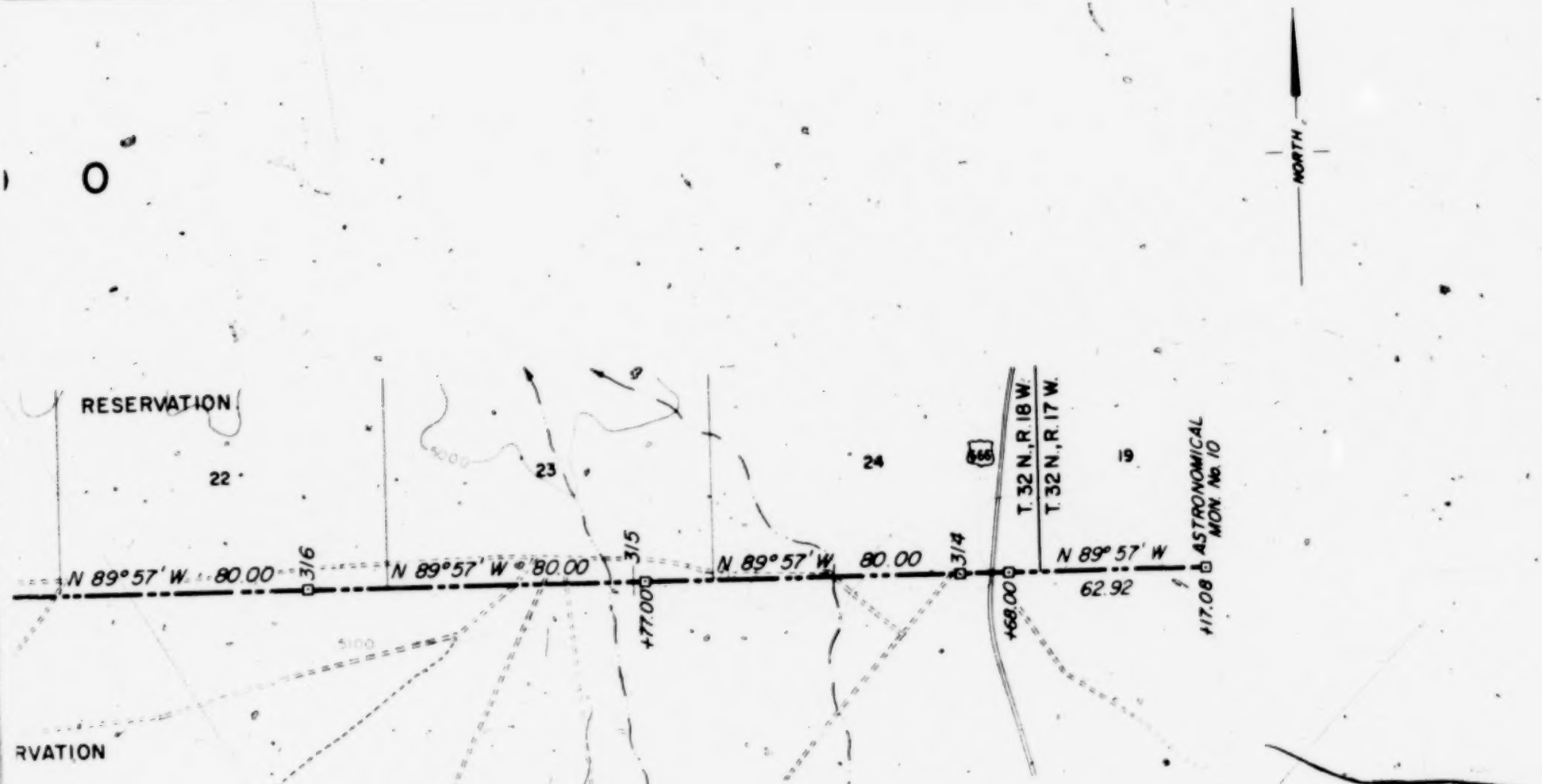
SAN JUAN COUNTY

N E W M E X I C O

SCALE

0 10 20 30 40 80

40 Chains to the inch



COLORADO AND NEW MEXICO BOUNDARY

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Joseph B. Thoma
Commissioner

COLORADO AND NEW MEXICO BOUNDARY

FIELD NOTES AND MAP OF SURVEY

MILE CORNER No. 322

to

MILE CORNER No. 330 + 8.54

The Darling Line, 323rd Mile

Chains

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 323rd mile.
Ascend 120 ft. to the edge of mesa.

8.87 North, 4.16 chs. dist.: computed position for the Carpenter 8th Mi. Cor.: unable to find any trace of Carpenter's 8th Mi. Cor.

28.20 E. edge of high mesa, bears NE. and SW.

32.61 Descend 29 ft.

34.90 Wash, course NE.; ascend 29 ft.

38.80 Wash, course N.

48.60 Top of ascent; descend 27 ft.

58.90 Draw, course NW.

59.50 Draw, course N.; ascend 28 ft.

72.50 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 322 + 72.50 Chs., 1868-1925.
Descend 15 ft. to point for corner.

77.50 Head of wash, course W.; thence continue down wash.

80.00 Point for the corner; unable to identify Darling's 323rd Mi. Cor.: the true point falls in a draw draining W.; I did not reestablish this corner.

The Darling Line, 324th Mile

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 324th mile.
Descend 22 ft.

4.80 Wash, 10 lks. wide, 5 ft. deep, course NW.

6.48 Ascend 24 ft.

11.84 The Carpenter 7th Mi. Cor. bears North, 3.68 chs. dist.; an iron post, no cap on post; I remove this monument.

16.07 Top of ascent; thence over nearly level land.

21.07 Descend 98 ft. on broken slope.

Chains

THE DARLING LINE, 324TH MILE

29.10 Draw, course N.

45.00 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 323 + 45.00 Chs., 1868-1925.
Ascend 72 ft. to spur.

45.60 Wagon trail, bears N. and S.

45.80 Wash, 20 lks. wide, course N.

53.20 Ravine, course N.

58.40 Spur, bears N.: descend 61 ft.

63.40 Ravine, course N.: ascend 36 ft.

65.00 Top of ascent: descend 46 ft.

68.00 Ravine, course NW.: ascend 30 ft. to point for corner.

74.90 Wash, course N.

80.00 Point for the corner: unable to identify Darling's 324th Mi. Cor.: point falls on unstable ground. I did not establish this corner.

THE DARLING LINE, 325TH MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 325th mile.
Ascend 4 ft. to top of spur.

1.35 Narrow gravel spur, slopes N. 70° W.
Set a Carpenter iron post, 3 ins. diam., 36 ins. long, 24 ins. in the ground. Obliterate the Carpenter marks from the cap, leaving COLO on N., NM on S., in raised letters, and remark the cap D A R below COLO on N., 324 M + 1.35 Chs. in center, 1868 on W., and 1925 on E.
Descend 67 ft. into valley.

6.80 Leave bad lands; enter Mancos Valley, bearing NE. and SW.

12.00 North, 3.16 chs. dist.: made careful search, unable to find the Carpenter 6th Mi. Cor.

21.81 Bottom of descent: thence over nearly level valley land

Chains

THE DARLING LINE, 325TH MILE

49.00 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 324 + 49.00 Chs., 1868-1925.

51.00 Top of bluff on E. side of Mancos River, 40 ft. high, bears N. and S.

55.80 E. bank of Mancos River, 1 ch. wide, course S.

59.10 S., 2.60 chs. dist.; ruins of an old stone house on W. bluff of Mancos River.

60.06 Road, bears N. and S.

70.50 Draw, course SE.; ascend 42 ft. to point for corner.

80.00 Point for the corner; unable to identify Darling's 325th Mi. Cor. Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 325, 1868-1925.

THE DARLING LINE, 326TH MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 326th mile. Descend 8 ft. over broken land.

10.32 The Carpenter 5th Mi. Cor. bears North, 2.64 chs. dist.; an iron post; I remove this monument.

27.50 Wash, course SE.

30.20 Ascend 84 ft. to point for corner.

80.00 Point for the corner; unable to identify Darling's 326th Mi. Cor. Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 326, 1868-1925.

THE DARLING LINE, 327TH MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 327th mile. Ascend 19 ft.

10.50 North, 2.08 chs. dist.; made careful search, unable to find the Carpenter 4th Mi. Cor.

Chains

THE DARLING LINE, 327TH MILE

15.50 Top of ascent; descend 84 ft. to ledge.

35.50 Top of ledge, E. rim of canon, bears S. 60 W. and N. 60 E.; descend abruptly.

40.75 Top of ledge, on W. rim of NE. branch of canon, 90 ft. deep, bears S. 60 W.

43.92 Ascend 84 ft. to top of rim rock, E. side of NW. branch of canon.

45.30 Deep canon, bears S.; confluence approximately 2.5 chs. S.

49.60 W. rim of canon, bears NW. and SE.

69.12 Set a tablet in outcrop of sandstone ledge, marked Mile Corner No. 326 + 69.12 Chs., 1868-1925.
Raise a mound of stone E. of the tablet.

70.00 Top of sandstone rim rock, bears N. and S.; conforming with the Darling field note record; descend 134 ft. abruptly into canon, course W.

80.00 Point for the corner; the 327th Mi. Cor was not established by Darling; point falls on steep S. slope; I did not establish this corner.

THE DARLING LINE, 328TH MILE

REESTABLISHMENT

N. 89° 57' W., on a reestablishment of the 328th mile.
Descend 57 ft. along steep wall of canon.

9.30 Leave canon; bottom of arroyo, course S. 60° W.; thence over nearly level valley land.

10.94 The Carpenter 3rd Mi. Cor. bears North, 1.52 chs. dist.; an iron post, 3 ins. diam.; I remove this monument.

17.40 Foot of mesa, bears NW. and SE.; ascend 35 ft.

18.30 Arroyo, 20 lks. wide, 10 lks. deep, course SE.

22.40 Thence over nearly level land.

32.40 Begin gradual descent of 16 ft. to edge of San Juan River.

41.70 Dry wash, 10 lks. wide, course SW.

North, approximately 3 chs. dist., to an Indian hogan; another hogan bears SW., approximately 1.5 chs. dist.

Chains

THE DARLING LINE, 328TH MILE

67.40 E. bank of San Juan River.

80.00 Point for the corner; unable to identify Darling's 328th Mi. Cor.; point falls in the San Juan River.

THE DARLING LINE, 329TH MILE

REESTABLISHMENT

N. 89 57' W., on a reestablishment of the 329th mile.

9.00 On level ground, S. side of river, S. and above left bank.
Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 328 + 9.00 Chs., 1868-1925.

10.79 The Carpenter 2nd Mi. Cor. bears North, 1.08 chs. dist.; a mound of stone; iron post has become obliterated; I scatter the mound of stone.

Thence over nearly level ground on S. side of river.

55.10 Top of river bluff, 40 ft. high, bears NE. and SW.
Descend 22 ft. to river flood area.

65.00 Ascend 17 ft. gradually to point for corner.

80.00 Point for the corner; unable to identify Darling's 329th Mi. Cor.; point falls in the flood area of the San Juan River; I did not establish this corner.

THE DARLING LINE, 330TH MILE

REESTABLISHMENT

N. 89 57' W., on a reestablishment of the 330th mile.
Over nearly level, barren ground.

11.14 The point for the Carpenter 1st Mi. Cor.; Carpenter did not establish this corner.

16.50 Top of river bluff, 30 ft. high, bears NW. and SE.; ascend 44 ft.

17.14 The point for the Carpenter 0.925 Mi. Cor.; the iron post has been removed.

Chains

THE DARLING LINE, 330TH MILE

20.00 Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 329 + 20.00 Chs., 1868-1925.

33.80 Top of ascent; thence over nearly level ground.

43.50 Telephone line, bears N. and S.

47.30 Dry wash, course N.; begin steep ascent of 276 ft.

50.80 Ledge rock outcrop, bears N. and S.; continue steep ascent.

69.10 Top of sharp lava rock ridge, bears N. and S.; descend 57 ft.

77.24 Dry wash, course N.; ascend 18 ft. to point for corner.

82.60 Point for the corner, unable to identify Darling's 330th Mi. Cor. The length of the 330th mile becomes 82.60 chs. in order to conform with the record distance (8.54 chs.) by Chandler Robbins, 1875, East from his established position for the 4 corners monument.

At point for corner

Construct a concrete monument, in a form 8x14x36 ins., set 24 ins. in the ground, with tablet seated in the top marked Mile Corner No. 330, 1868-1925.

THE DARLING LINE, 331ST MILE

REESTABLISHMENT

N. 89° 57′ W., on a reestablishment of the 331st mile.

Ascend 14 ft. over nearly level ground to corner.

8.54 The monument at the Corner of the Four States, Colorado, New Mexico, Arizona, and Utah.

A concrete monument, 14 ins. sq. at the top, 19 ins. sq. at the ground surface, standing 20 ins. above ground, firm foundation. Seated in the top, a standard General Land Office bronze tablet, 3½ ins. diam., now badly mutilated. The field note record calls for the following marks:

FOUR CORNERS

UTAH	COLO.
ARIZ.	N. MEX.
1931	1934

Chains

THE DARLING LINE, 331ST MILE

From the center of the monument

A reference monument bears West, 1.14 chs. dist.; a standard General Land Office bronze tablet, 3½ ins. diam., seated in a concrete base, top flush with the ground, top 12 ins. sq.; tablet mkd. REFERENCE No. 2, 1931-1934; an arrow pointing to the corner.

A similar reference monument bears East, 1.14 chs. dist.; tablet mkd. REFERENCE No. 1, 1931-1934; an arrow pointing to the corner.

HISTORICAL SKETCH FOUR CORNER

1868—Darling's terminal monument, his Astronomical Monument No. 11, for the intersection of the 109th Meridian West from Greenwich was placed at his station 331st Mi. Cor. plus 60.00 chs.

1875—Chandler Robbins, U. S. Surveyor and Astronomer, having derived a new longitude determination measured West from Wilson Peak (Shiprock) in northwesterly New Mexico, placed the intersection with the boundary at Darling Mi. Cor. 330 plus 8.54 chs.; Robbins erected a substantial stone monument appropriately marked to identify the Corner of the Four States. This became his initial point for the survey of the meridian running South on the establishment of the boundary between New Mexico and Arizona.

1878—Rollin J. Reeves, U. S. Surveyor, duly identified the Robbins monument, and beginning at this point surveyed the meridian running North, establishing and marking the boundary between Colorado and Utah.

1885—Allen D. Wilson, U. S. Surveyor, again identified the Robbins monument, and retraced the line running North, along the boundary between Colorado and Utah.

1899—Hubert D. Page and James M. Lentz, U. S. Surveyors, engaged in subdividing a portion of T. 43 S., R. 26 E., Salt Lake Meridian, the southeasterly township in Utah, and closing their fractional sections on the Colorado and Utah boundary, as previously established, recovered the position of the Robbins monument at the Corner of the Four States, though finding that the stone had been disturbed and broken.

Page and Lentz marked and set a new stone at the original Robbins location.

1901—Howard B. Carpenter, U. S. Surveyor and Astronomer, surveyed and established the Utah and Arizona boundary, running from West to East along the 37th Parallel. At the Carpenter station 277th Mi. Cor. plus 5.18 chs., on true line S. 89° 42′ E., by random and true line beginning at his 272nd Mi. Cor., intersected and closed the survey at the monument marking the Corner of the Four States established by Page and Lentz, finding the stone well marked and in good condition.

1902—This was the initial point of the Carpenter survey along the redetermination of the 37th Parallel, running eastward.

1915—Clayton R. Burt, U. S. Surveyor, running and marking the outboundary lines of the lands of the Southern Ute Indians in Colorado, including also an area in New Mexico farther to the East, retraced the Colorado and Utah boundary as previously established. Burt identified the Page monument at the Corner of the Four States.

1931—Everett H. Kimmell, U. S. Surveyor, General Land Office, Department of the Interior, on field work in cooperation with a party of the U. S. Coast and Geodetic Survey, Department of Commerce, identified the Page and Lentz stone, and a marked stone deposit, finding the larger stone again broken. Kimmell constructed the concrete monument now marking the Corner of the Four States.

1934—Geographic position at the Corner of the Four States, U. S. Coast and Geodetic Survey, North American datum:

Latitude	36° 59′ 56.3″ N.
Longitude	109° 02′ 40.24″ W.

C O L O R A D O

MONTEZUMA COUNTY

UTAH

ARIZONA

UTE MOUNTAIN INDIAN RESERVATION

NAVAJO INDIAN RESERVATION

SAN JUAN COUNTY

N E W M E X I C O

20 21 22 23 24 19

T. 32 N., R. 21 W.

T. 32 N., R. 20 W.

T. 32 N., R. 20 W.

T. 32 N., R. 19 W.

330 327 326 325

+8.54 +20.00 +9.00 +69.12 +49.00

N 89° 57' W 82.60 80.00 80.00 80.00 80.00 80.00 80.0

4800 4700

San Juan River

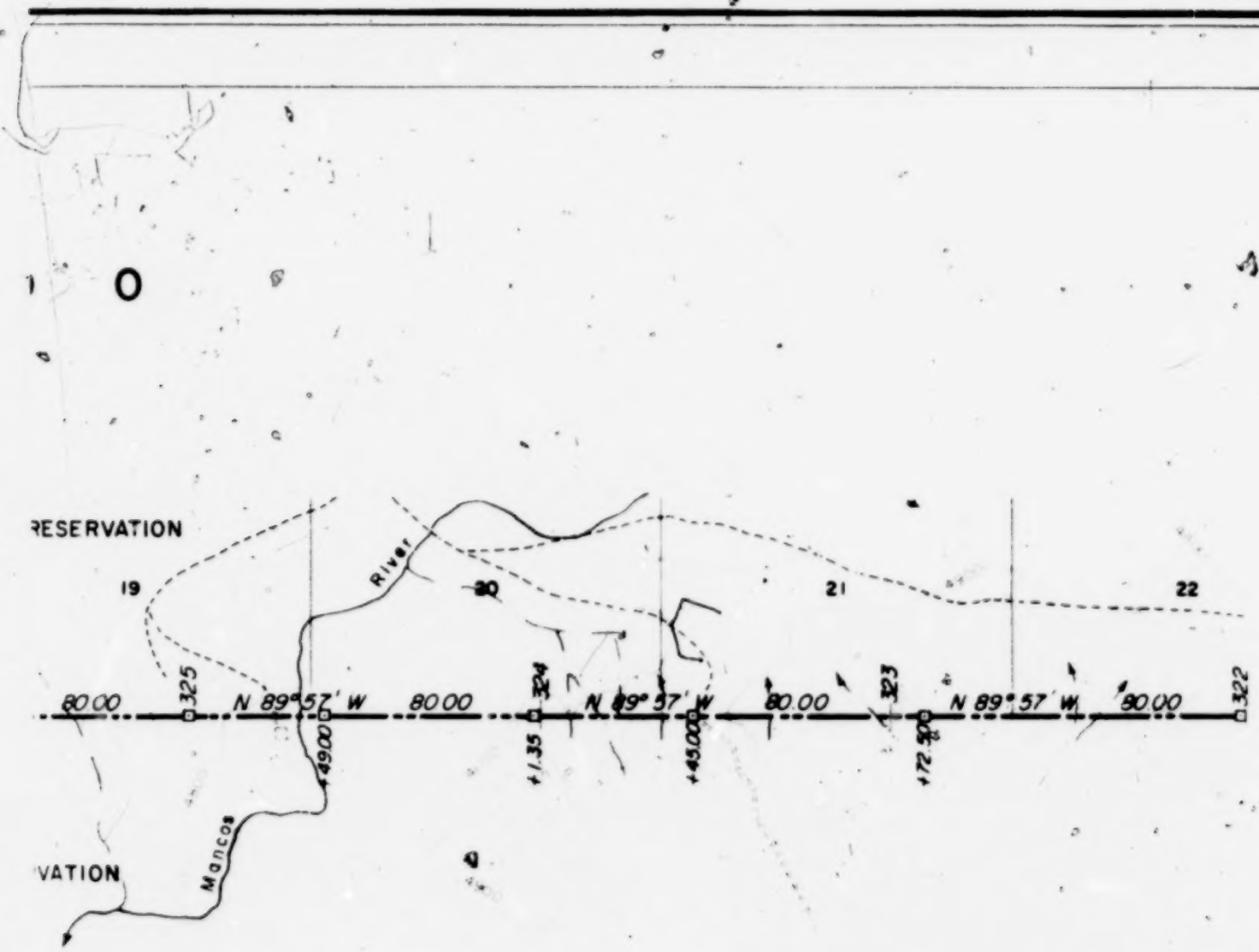
Tohache Wash

Mancos River

SCALE

0 10 20 30 40 80

40 Chains to the inch



COLORADO AND NEW MEXICO BOUNDARY

This plat depicts the boundary line between the States of Colorado and New Mexico as reestablished by the late Arthur D Kidder, Boundary Commissioner, under the Decree (268 U.S 108) of the Supreme Court of the United States, dated April 13, 1925

Joseph E. Thoma

Commissioner